1966 WORLD RADIO TV HANDBOOK

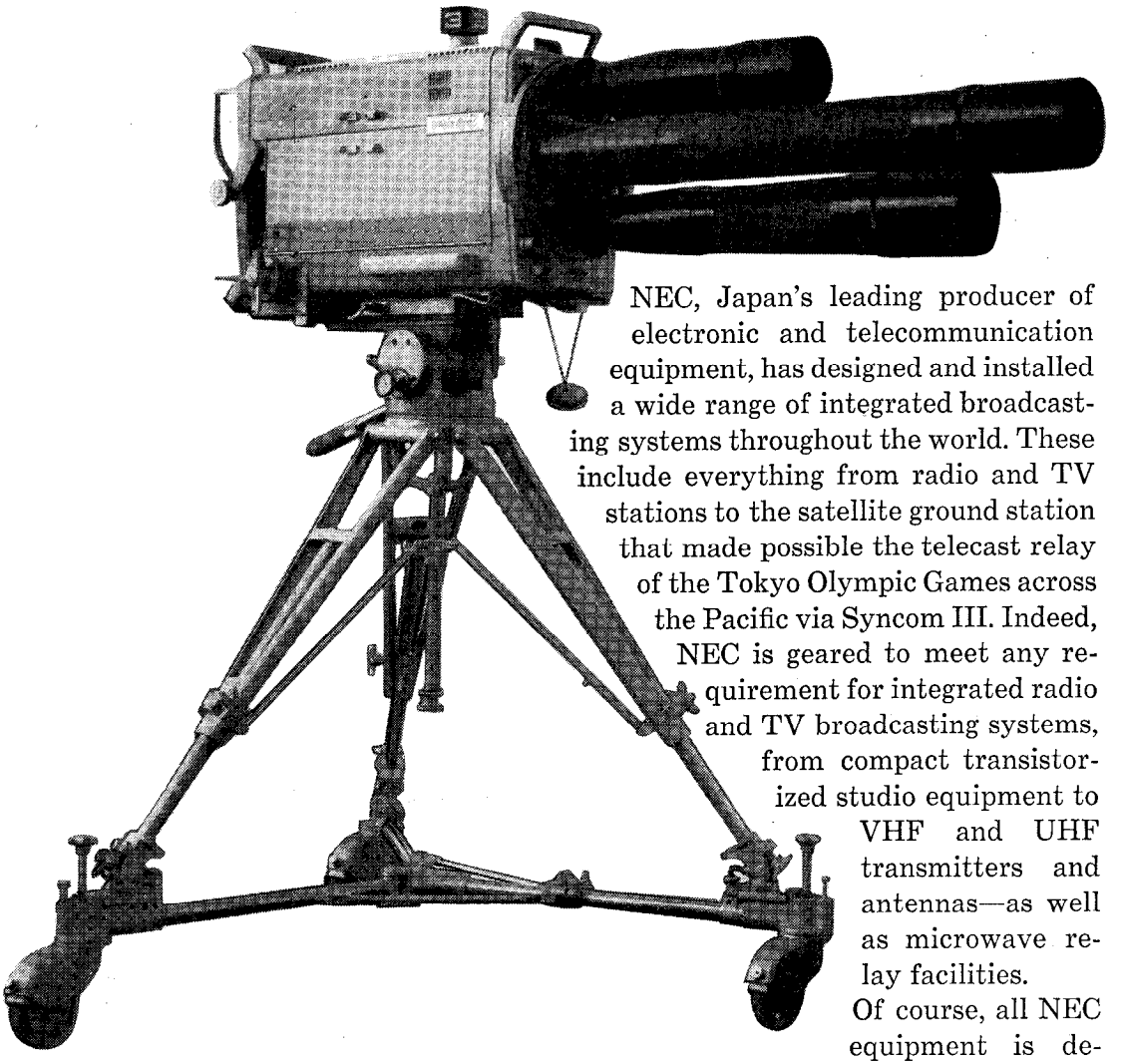
20th. edition

The complete directory and basic reference guide of international radio and television

*

Including short wave, medium wave & TV stations with frequencies, programs, world maps, and other data. Complete index on page 10

NEC's wide range of integrated broadcasting systems — geared to meet any demand anywhere!



NEC, Japan's leading producer of electronic and telecommunication equipment, has designed and installed a wide range of integrated broadcasting systems throughout the world. These include everything from radio and TV stations to the satellite ground station that made possible the telecast relay of the Tokyo Olympic Games across the Pacific via Syncom III. Indeed, NEC is geared to meet any requirement for integrated radio and TV broadcasting systems, from compact transistorized studio equipment to VHF and UHF transmitters and antennas—as well as microwave relay facilities.

Of course, all NEC equipment is designed for easy accessibility, simple maintenance and minimum power consumption. It meets the highest international broadcast standards of signal quality, stability and reliability such as FCC, CCIR, etc. At present, sixty percent of the more than seven hundred seventy-four radio stations in Japan are supplied with NEC equipment.

Products for today — Innovations for tomorrow

NEC

Nippon Electric Company Limited P. O. Box 1, Takanawa, Tokyo, Japan

The new Marconi MARK V solid-state television camera

ALL SOLID STATE

Silicon transistors used throughout the chain to give outstanding stability and reliability. Constant output ensured despite mains variations, temperature changes or external fields. Easy access for tube changing. No image orthicon setting up controls.

SIMPLE CONTROL

Simple compact control panel, four of which can be mounted on a console desk, gives complete 'hands off' operation.

MINIMUM RACK SPACE

Single rack mounting camera control unit, control panel and power supply. Circuitry contained in seven plug-in printed wiring modules, giving easy front access for maintenance.

INTEGRATED ZOOM LENSES

Choice of servo or manually controlled zoom lenses gives infinitely variable focal length for exact picture framing. Simplified camera operation and improved programme continuity.

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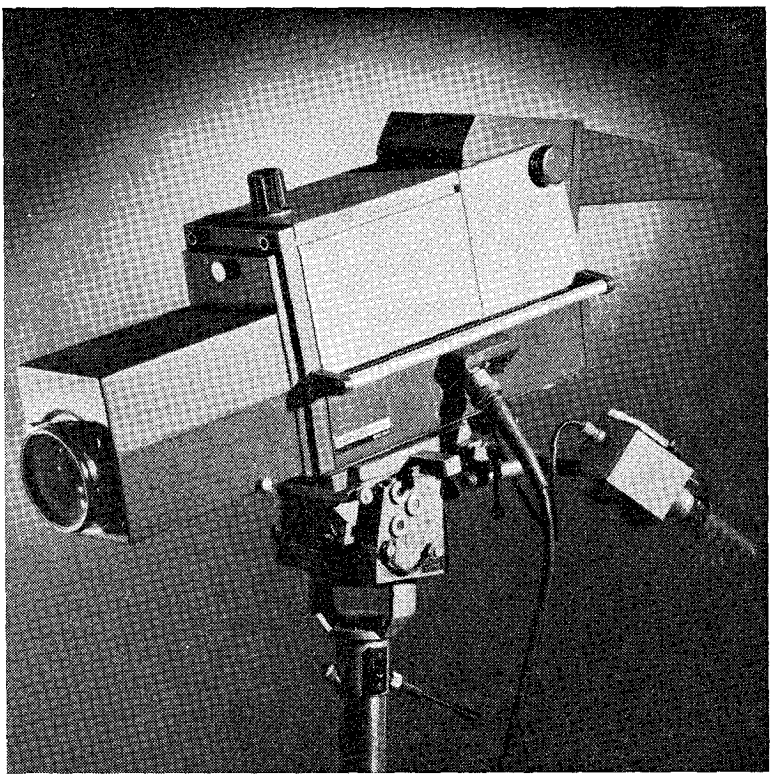
Ensures most comfortable viewing position for all camera angles. Detachable up to 30 ft. from camera. Brilliant picture (200 ft.-Lamberts). Camera, external or mixed signals available at cameraman's choice.

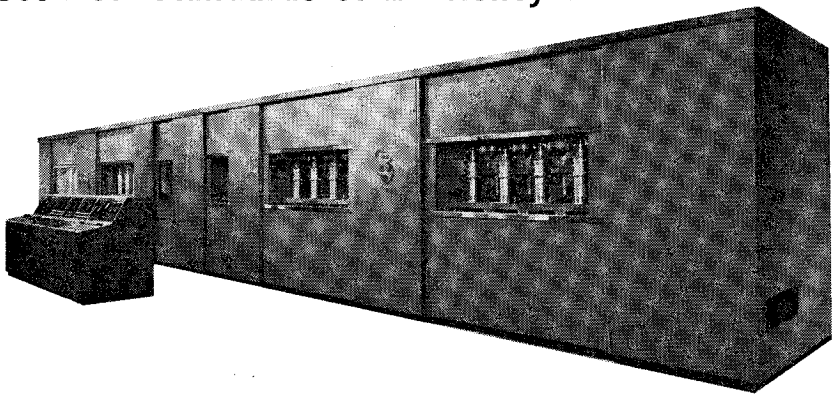


The smallest, lightest 4½ in. Image Orthicon Camera in production, as simple to operate as an ordinary amateur photographic camera

Marconi television systems

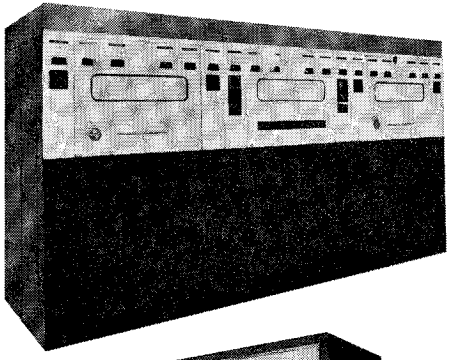
The Marconi Company Limited, Broadcasting Division, Chelmsford, Essex, England LTD/B66

Continental Medium Wave Broadcast Transmitters Set New Standards of Efficiency and Performance!



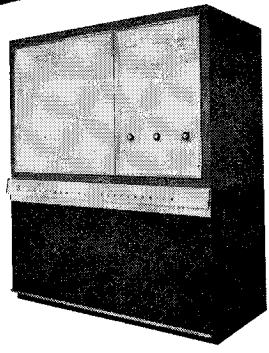
TYPE 323B 1,000,000 WATT AM MF BROADCAST TRANSMITTER

Designed for operation in the standard broadcast band, Continental's 1,000,000 watt transmitter consists of two Type 320B 500,000 watt transmitters which are combined to provide a power output of 1,000,000 watts. These were the first super power transmitters built for the Voice of America, and were installed at Munich, Okinawa and Manila in 1953.



TYPE 317C 50,000 WATT AM MF BROADCAST TRANSMITTER

- High efficiency screen modulated power amplifier*
- Highest overall efficiency of any 50 kw transmitter known to be in existence today
- Both power amplifier tubes operate as conventional class "C" amplifier
- Modulator operates similar to push-pull class "B" amplifier
- Requires only 54 sq. ft. of floor space



TYPE 315C/316C 5,000/10,000 WATT AM MF BROADCAST TRANSMITTER

- Regulinear screen modulation system**
- Power increase from 5 kw to 10 kw without major circuit changes
- Centralized controls
- Requires only 34" x 66" of floor space
- Power supplies use solid state rectifiers
- Air cooled
- Only four tube types

*Patents applied for **U.S. Pat. 2,918,631

For additional information and specifications, write: Department 64, Continental Electronics Manufacturing Co., P. O. Box 17040, Dallas, Texas 75217.

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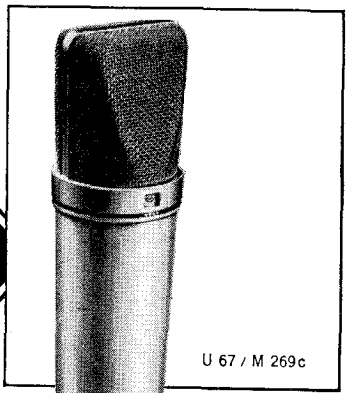

U 67 / M 269c

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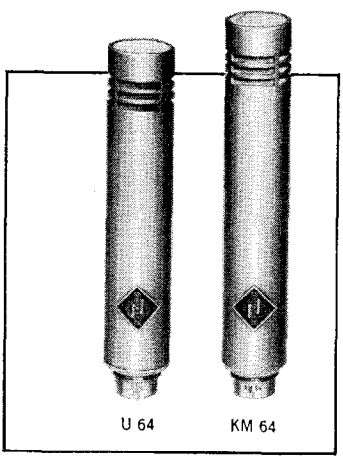

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EQUIPMENT

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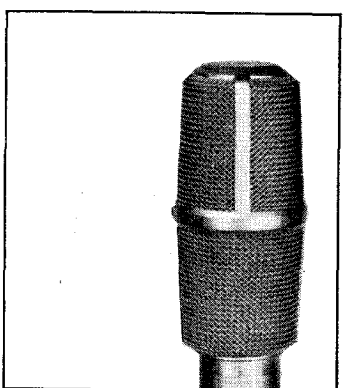

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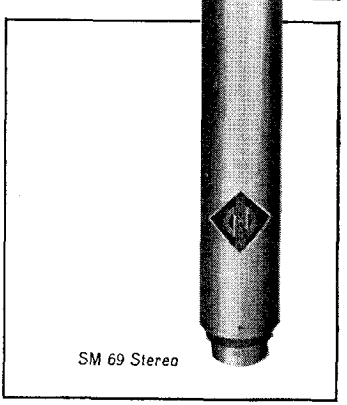


SM 69 Stereo

PREFACES

Sir Charles Moses

I would like to congratulate the World Radio TV Handbook, on the occasion of this anniversary issue, on the assistance it has provided for broadcasting organisations and the people they serve during the past twenty years. The cause of increasing international understanding can be served in many ways: the Handbook is making a practical contribution by providing broadcasters with information about their colleagues in other parts of the world, and the public with encouragement to listen to programmes from other countries.

Close contact and understanding among the broadcasters of different countries is clearly of vital importance if radio and television are to be used fully to help the peoples of the world to live peacefully together. As the broadcasting media have such power over men's minds – either for good or evil – it is generally agreed that those who control broadcasting services carry a heavy responsibility to encourage tolerance and goodwill. But the broadcasters must first know and understand each other.

This is why I believe that regional broadcasting Unions have an especially important function in the cause of international understanding. These Unions of broadcasting organisations – the EBU, OIRT, URTNA and the ABU – provide means for their members to work together regularly and to get used to thinking beyond the boundaries of their own countries. The growing collaboration among the Unions, and the fact that some broadcasting organisations are members of more than one Union, opens further possibilities for genuine understanding and joint effort among broadcasters from widely different environments.

The ABU is the youngest of the regional Unions and I think it would be fair to say that it has, within its own region, members with a greater variety of backgrounds than is to be found in the other Unions. Its Statutes state that the ABU region stretches from longitudes 30° East to 170° West. In practice this means that its full members have their headquarters in cities as far apart as Ankara at the western end of Asia and Apia in the Pacific and, from north to south, from Seoul in Korea to Wellington in New Zealand.

Within this area our members speak many languages and have many different cultural backgrounds. Some are large organisations with extensive resources, others have the minimum facilities for putting programmes on the air. Some serve vast areas, other tiny islands. By whatever criterion you choose, the ABU's members in its own region could hardly be more varied, and this is without taking account of our associate members in other regions among whom the ABU has been glad to welcome some of the world's major broadcasters.

But there is common ground within this diversity and the ABU looks forward to building closer ties among its members and, through them, better understanding among the people of their respective countries. The ABU members are all professional broadcasters and this gives them many bonds on which to build co-operation – the similarity of their work despite the different environments in which it is carried out; the common responsibilities of helping in national development and of providing education, information and entertainment; and the other problems that arise in every broadcasting service.

There is a series of maps published by UNESCO which show the number of radio and TV transmitters and receivers now existing. For some continents the symbols representing transmitters and receivers can barely be fitted into the space available but in many parts of the ABU's region they look very few indeed. This points to another of the ABU's main objectives: to help in the development of the broadcasting media in an area where there is a real need for broadcasting services to help in raising living standards, the level of education and working skills, and in generally opening opportunities to benefit from modern knowledge.

The ABU has, and will have, problems, as has every Union or association, but its members are determined that it will overcome these problems and are strengthened by knowing that they have the goodwill and co-operation of the other regional broadcasting Unions.

Sir CHARLES MOSES
Secretary-General, Asian Broadcasting Union

Gian Franco Zaffrani

I really would not care to say that WRTH is my "bed-side" book. One thing however is certain: if some inquisitive person should poke around in my office, a copy of it would be found in the top right-hand drawer of my desk. As a matter of fact, I always keep WRTH at hand because I consider it a sort of family book of ours, of the people who work in the field of sound and television waves the world over. For my part I consider WRTH something like a somewhat complicated visiting-card of an international brotherhood. It is the professional "who's who" of one of the greatest and most civilized of human labours. I might even say that WRTH is a modern "Gotha" of broadcasting in all continents.

My Assistants, who are all practical people, keep their WRTH copy on their desk, next to the telephone directory and the railway timetable. This simple way of placing it, topographically speaking, puts it on a level, as far as usefulness goes, with those books that, as everybody knows, are absolutely invaluable and universally used.

As for "the others" the people who do not belong to the brotherhood, WRTH is something of a code, a secret code. But they know, that if it is studied with due attention and waryness, it is possible to extract from it and to translate into a language that all can understand, an incredibly vast sum of information, data and notions.

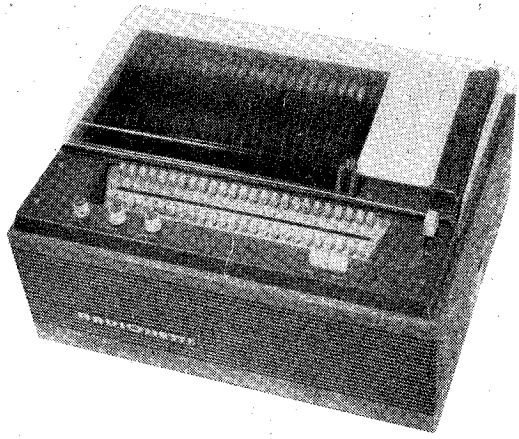
Considering these opinions, that are both favourable and in agreement with each other, it is easy to foresee a very happy future for this book that, with this edition, celebrates its 20th birthday.

Continued page 8

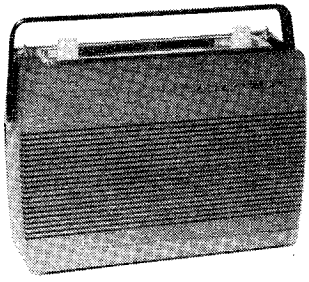
This year's great sensations in music entertainment

RADIONETTE MULTIPLAYER 50

This world novelty is playing 50 disc-sides in 6 hours non-stop in the home, for dancing entertainment and for background music in restaurants and stores. By push-buttons you can start, stop or replay any disc. Dimensions are as a conventional record changer. This selfplaying disc library protects the discs from dust and damage. Powerful transistorized amplifier of 15 Watts' output gives perfect HI-FI reproduction (45-17000 c/s) from your discs.

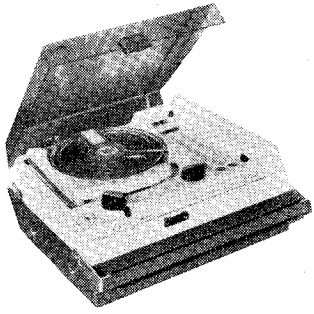


RADIONETTE has 40 years of experience on technical improvements of highest quality. The production line consists of 35 models of portable radios, table- and console-models, TV, tape recorders, amplifiers and mini-jukeboxes – all models great news for music lovers. Export to 60 countries.



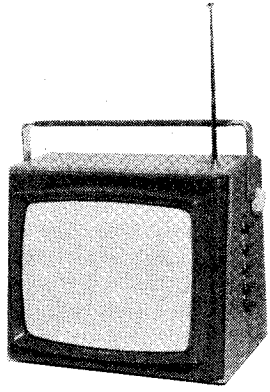
KURER FM DE LUXE in teak

This elegant portable AM/FM model has 4 wavebands. Highest sensitivity and selectivity are the features. Stable reception on FM with AFC. Outlets for mains adaptor, extra speakers and earphones. Special combined models for cars available. Smart cabinets in teak, palisander, black/nickel and pastel colours. 2 different versions: Incorp. long-and shortwave or (exportmodel) 2 shortwave bands, no longwave.



MULTICORDER 4

This portable transistorized tape recorder has entirely new constructions in elegant design. 1 knob for immediate choice of 4 programmes – single reel – 12 hours playing time. Supreme Hifi quality of tone. Battery operated and outlets for mains adaptor. For use everywhere, also in cars.



PORTABLE, FULLY TRANSISTORIZED TV

This elegant compact TV of highest quality has an 11" picture tube. Gives sharp pictures and brilliant sound reproduction – in the home, on the beach – whereever you are. Mains/battery operated.

Developped and produced by:

RADIONETTE

TRONDHEIMSVEIEN 100
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At last! A quality microphone designed **specifically** for the ham. Incorporates features galore that hams have asked for. Tops in voice punch and intelligibility . . . and abounding in convenience features to minimize operator fatigue. Great for AM & FM transmission, unsurpassed for SSB. Check these outstanding ham-oriented features:

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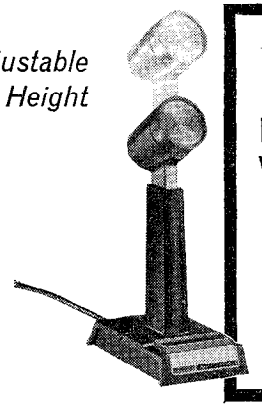

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GREECE: National Broadcasting Institute.
HOLLAND: Radio Nederland Wereldomroep.
HUNGARY: Hungarian Broadc. Sce.
INDIA: All India Radio.
INDONESIA: Radio Republik Indonesia.
IRAN: Radio Tehran.
ISRAEL: Israel Broadcasting Service.
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JAPAN: NHK – Radio Japan.
MALAYSIA: Radio Malaysia.
NEW ZEALAND: New Zealand Broadcasting Service.
NIGERIA: Nigerian Broadcasting Corp.
NORWAY: Norsk Rikskringkasting.
PAKISTAN: Radio Pakistan.
POLAND: Polskie Radio i Telewizja.
PORTUGAL: Emissora Nacional
RUMANIA: Radio Bucharest,
SAUDI ARABIA: Saudi Arabia Broadc.
SPAIN: Radio Nacional de España. – Sociedad Española de Radiodifusion. – Red de Emisoras del Movimiento.
SWEDEN: Swedish Broadcasting Corp.
SWITZERLAND: Swiss Broadc. Corp.
TURKEY: Radio Ankara.
SOUTH AFRICA: South African Broadcasting Corp.
USA: The Voice of America. – Radio New York Worldwide (WRUL).
USSR: The State Committee for Broadcasting and Television.
VATICAN STATE: Vatican Radio

The Editor of the World Radio Television Handbook seeks information from all stations and organizations engaged in broadcasting and/or television and interested in international broadcasting and/or television and publishes the information as communicated to him by the stations or organizations. The Editor cannot be held responsible for the correctness of this information or for not publishing schedules and other particulars of stations which do not supply this information, or for changes in the times and wavelengths of programmes made after the current edition has gone to press.

WORLD RADIO TV HANDBOOK

RADIO TELEVISION 1966

★

Published by

WORLD RADIO-TELEVISION HANDBOOK CO. Ltd.
Sundvej 6
Hellerup, Denmark

Founded by O. Lund-Johansen in 1947

★

Twentieth edition

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 (continued from page 4)

To WRTH and to its Director, Mr. J. M. Frost, I therefore send all my heartiest wishes that they may continue with increasing success along the road they have chosen thus giving us an always more complete and faithful representation of the world of broadcasting in its rapid evolution and continual development.

GIAN FRANCO ZAFFRANI
Director for Foreign Relations
Radiotelevisione Italiana

Tor Gjesdal

It may not, at first sight, seem appropriate to issue a word of warning in a message of congratulation on the occasion of an anniversary. That we associate ourselves with the many messages of goodwill that the WRTH will certainly receive, after twenty years goes without saying.

The growth of the World Radio Television Handbook, from its modest beginnings to the invaluable guide which it has become today, reflects the quite extraordinary development of world communications in one generation.

We have in our hands instruments of tremendous power. It is how we use this power that counts. It is fitting, after twenty years, to pause for a moment to think out clearly where we are going, what we want to achieve and where our responsibilities lie.

One of our important tasks as an international organization is to see to it that the knowledge and experience of each individual country is made known to others. For this, the World Radio Television Handbook is an indispensable tool. But more important, perhaps, is the responsibility we all of us have to guide the movement towards greater communication in the direction of real mutual understanding, real co-operation and effective social and economic advancement.

For let us make no mistake – we are playing with fire – fire that can warm and illuminate, but also fire that can consume and ultimately destroy.

With satellites we shall be reaching the billions – but even today hundreds of millions of minds are open to hear what we have to say. But can we assume, as we do far too easily, that this swifter communication will automatically lead to a better understanding of one another? We have only to look and listen to see how easy it is, in our present day, to propound half truths, to appeal to conformity, to deaden sensibilities, without any time to reflect and to consider. So let us not become the captives of our own ingenuity. The users of the marvellous media at our call have never had a graver responsibility than they have today.

In the same year that Unesco is marking its first 20 years, we extend our congratulations and good wishes to the World Radio Television Handbook on this, its 20th anniversary.

TOR GJESDAL
Dir., Dept. of Mass Communication
U.N.E.S.C.O.

Josef Nichols

The very first WORLD RADIO HANDBOOK was dedicated to "international understanding" and each subsequent issue stressed this theme more emphatically and more eloquently. Indeed, the WORLD RADIO TV HANDBOOK made a substantial contribution to the cause of international understanding and co-operation among Nations by its comprehensive coverage of the complex field of Radio and Television. It kept thousands of broadcasters well informed of the latest data pertaining to our rapidly changing field.

On the occasion of the 20th Anniversary of this publication, the Radio & Visual Services of the United Nations Office of Public Information wishes to extend its warmest congratulations to the publisher, editor and the entire staff of the WORLD RADIO TV HANDBOOK. Founded by Mr. O. Lund-Johansen in 1946, the publication was transferred to new owners last year. We know that this fine publication will continue its valuable work for many years to come.

Today, we live in a world of transition and change. Voices of world leaders, transmitted over powerful transmitters travel around the globe in one-seventh of a second, reaching millions of people on every continent.

The heartbeat of a brave space traveller is recorded by a world network of tracking stations while he is travelling through space at 24,000 feet per second. Olympic Games may be watched via a communications satellite at the very moment they occur; a complicated heart operation taking place on one continent may be watched thousands of miles away by groups of doctors on another continent. We have seen "live" TV pictures of the moon's surface; men floating weightlessly in space; sessions of the United Nations Security Council are watched through the communications satellite simultaneously in over 20 countries. On the other hand world news focuses its cameras on bloody revolutions, on overt acts of prejudice and hate. Today, cameras capture pictures of men locked in battle, refugees fleeing from their homes, children begging for food amidst ruin and devastation.

Twenty years ago humanity stood at the threshhold of peace and swore: "We the Peoples of the United Nations, determind to save succeeding generations from the scourge of war which twice in our lifetime has brought untold sorrow to mankind..."

Have we, who work in the field of communications, failed in our task to interrelate the great technological advances with the need to develop our political, economic and social resources? Have we been unable to grasp the complex interplay of forces at work today and to translate them into attitudes and actions for universal peace?

Have we truly used our powerful tools of communications, our space satellites, our masers and lasers, our million watt transmitters for the general good of mankind?

Commemorating the twentieth anniversary of the United Nations, Secretary-General, U Thant, asked during his San Francisco speech:

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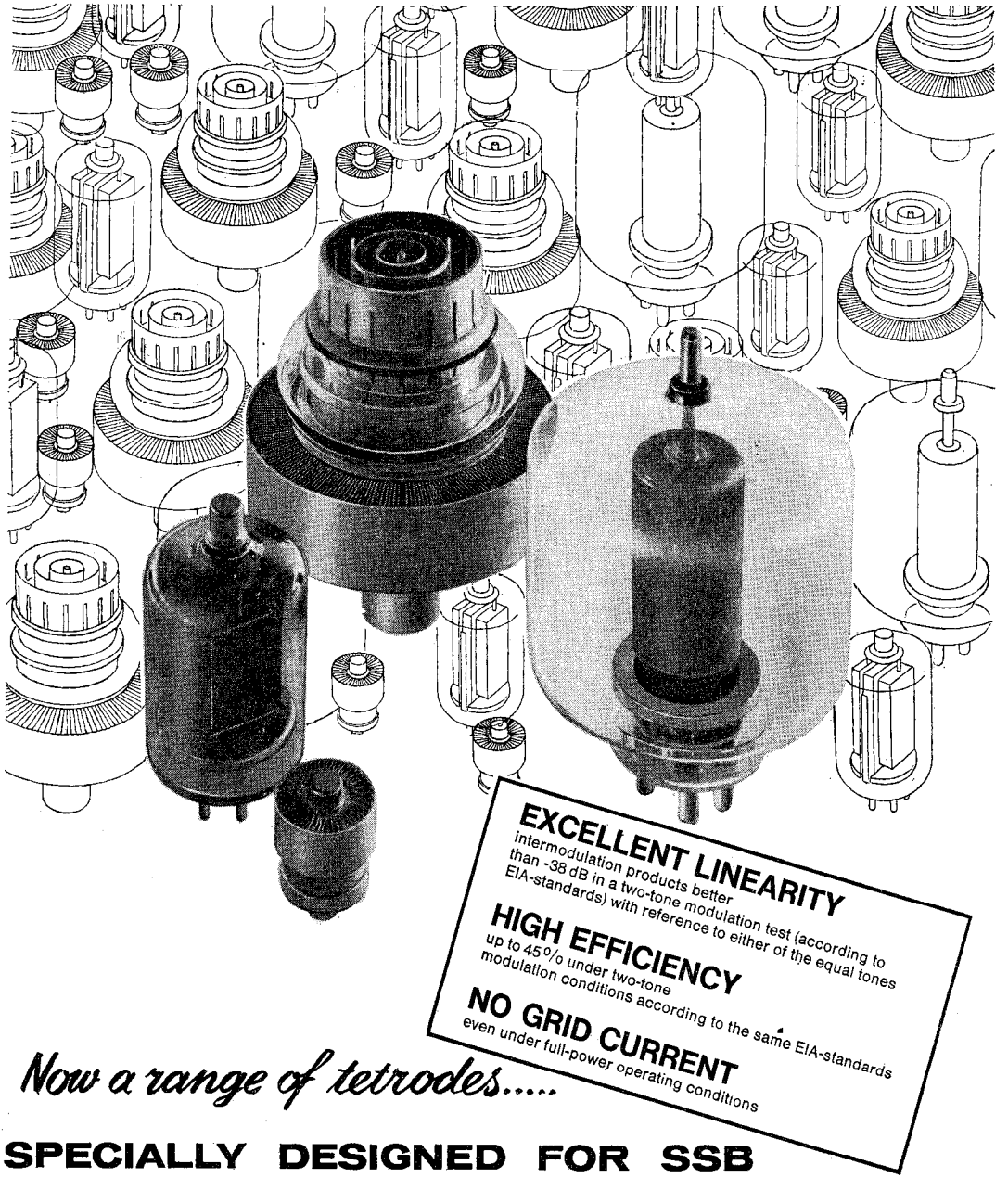

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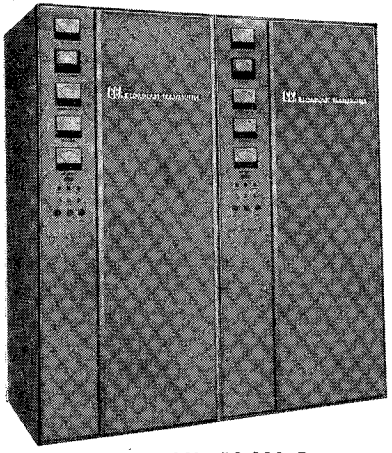
TABLE OF SHORTWAVE STATIONS to the Summer-Supplement 1966.

In order to make this as complete and up-to-date as possible we direct an earnest appeal to **all radio stations using shortwave** to send us regularly their transmission- and/or programme-schedules.



AM - 10,000 D

The CCA AM-10,000D, 10 KW AM broadcast transmitter incorporates features that are standard in all CCA AM transmitters. These include:

Silicon rectifiers with minimum of 200% safety factor; 300% reserve in air cooling; minimum tube costs; low distortion high level plate modulation; automatic overload recycling; minimum floor space; full accessibility with hinged meter panels.

CCA *Quality* AM BROADCAST TRANSMITTERS

- VLF, MF. HF FREQUENCIES
- EXCEEDS FCC & CCIR SPECS
- ALL POWERS 100 TO 100,000 WATTS
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- CONSERVATIVE — LONG LIFE MODERN TUBES
- EMPHASIS ON STANDARD PARTS
- SILICON RECTIFIERS
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- MULTIPLE CHANNEL PRESET
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- 10 TO 40,000 WATTS
- NO REQUIREMENTS FOR NEUTRALIZATION
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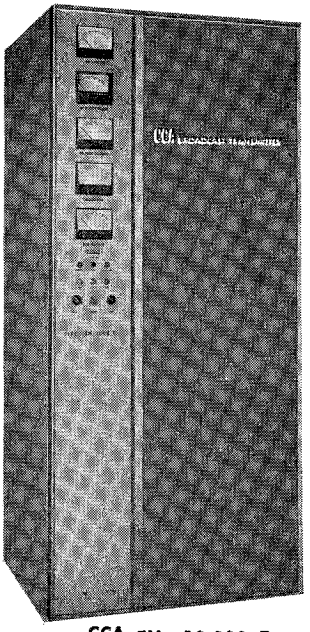
- DESIGNED FOR STEREO AND MULTIPLEXING
- SILICON RECTIFIERS
- MINIMUM TUBE COSTS
- AUTOMATIC OVERLOAD RECYCLING

The CCA FM-10,000D, 10KW FM broadcast transmitter incorporates engineering features which are standard in all CCA FM broadcast transmitters. These include:

Zero bias high mu triodes with grids connected directly to DC ground. This eliminates the requirement for neutralization, RF bypass capacitors and bias supplies. In addition, all transmitters contain silicon rectifiers with minimum of 200% safety factor, 300% reserve in air cooling; minimum tube cost, automatic overload recycling, multiplex and stereo operation.



CCA FM - 10,000 D
10 KW FM

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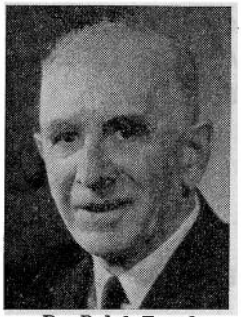
 (continued from page 8)

"Is it really only the scourge of war or the lash of terror that can move us toward the goal of peace and justice in the world? Can we not make the effort to advance out of our own sense of responsibility and knowledge, rather than be driven like refugees before a storm which may be unleashed by our own inability to take hold of the future? I believe not only that we can, but that we must make the effort..."

JOSEF C. NICHOLS
Operations Manager
Radio & Visual Services Division
United Nations


Dr. Ralph Freed

Mid-point in this great decade of the 60's, 1965 will go down in history as a year of unparalleled advancement, particularly in the physical sciences. With successful probes into deep space, multi-manned orbital missions, amazing new aircraft, and a host of other technological developments, it is clear that the spectrum of man's knowledge – even in the last twelve months – has been extended considerably.

With all that has taken place to broaden man's horizons, the role played by *communications* is a significant one, indeed. In today's scientific world, radio has been thought of as a great medium to impart culture and education. These are worthy objectives, but are not sufficient. Man's spiritual needs must also be met. Thus, the paramount objective of Trans World Radio is to proclaim the eternal truths of God's Word, the Bible.

If mankind is to benefit from the prodigious and remarkable scientific advancements of our time, we must close the "spiritual gap"; we must *communicate* the message of Christ to meet man's *spiritual* needs.

This is the mission of Trans World Radio.

DR. RALPH FREED
General Director
Trans World Radio

Yoshinori Maeda

I do not believe that mankind, which has experienced many tragic wars, has ever wished for peace and prosperity so strongly as today. And, I am convinced that mutual understanding and trust among all peoples is the basic factor for achieving such a goal. Needless to say, broadcasting is an excellent medium to unite the peoples of the world and to create a feeling of solidarity among them.

By making full use of such an influential function as broadcasting, we earnestly desire to contribute towards the realization of world peace through the cooperation of broadcasting organizations throughout the world.

It has been said that war is generated in the minds of people and that the citadel of peace is also built in the minds of men. I feel that the broadcasting world should exert its utmost endeavours towards the building of such a citadel.

With the successful TV space relays of the 1964 Tokyo Olympics as a beginning, we have already entered the age of space communications, from which we may safely say that a new era of international relations will surely emerge. It will not be long before we greet the day when news of the world is transmitted to every corner of the globe by means of communications satellites launched by international cooperation. This is the day when Lancelot Hogben's words that for television the entire world is just one area will be literally realized. We eagerly look forward to greeting that day.

With this in mind, we expect that the World Radio TV Handbook, which has marked its 20th anniversary as the world's only Handbook of its kind for international radio and television, will play an important role in advancing the hopes I have just mentioned. I conclude this message by earnestly hoping that your Handbook will make further development.

YOSHINORI MAEDA
President, Japan Broadcasting Corporation (NHK)

Hans Jacob Ustvedt

It should hardly be necessary to emphasize further the increasing importance of television and sound radio in our time, both nationally and internationally. It may be said that the acceleration characterizing the development from year to year is steadily increasing the necessity of close international collaboration. It goes without saying that the conditions in the small countries in many ways differ essentially from those in the bigger ones, but irrespective of this fact, the problems will to a great extent be the same. The need of international contact and with that of personal relations between the broadcasting organisations will consequently be increasing, thus increasing even the value of the WORLD RADIO TV HANDBOOK.

HANS JACOB USTVEDT
Kringkastingsjef
Norsk Rikskringkasting, Oslo

Dr. L. F. Tijmstra

It is said that silence is the element in which great things fashion themselves. The World Radio TV Handbook must be the exception that proves the rule, for it has been fashioned in an ever-increasing flow of sound that is fast threatening to crowd out the available frequency space and make the short wave bands seem like peak-hour thoroughfares.

Taking this simile further, one wonders what would happen, in this motorized age, if all the road signs and traffic indications were

Continued page 14

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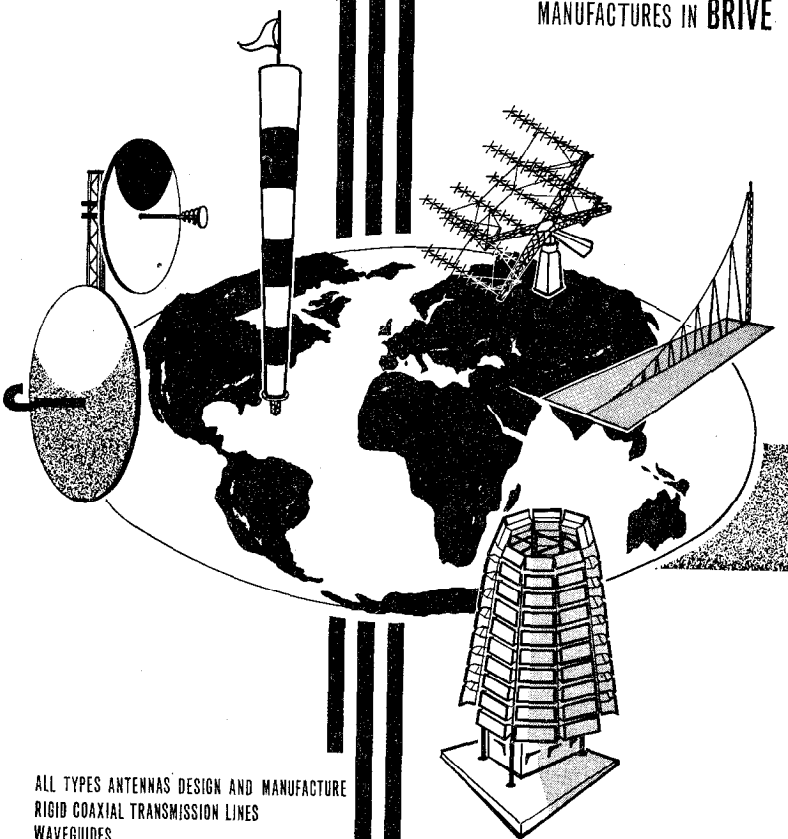
MANUFACTURES IN BRIVE FRANCE



ALL TYPES ANTENNAS DESIGN AND MANUFACTURE
RIGID COAXIAL TRANSMISSION LINES
WAVEGUIDES
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Call on our design experience for help in solving your problems! write for complete specifications on standard material.

suddenly to disappear from our highways and byways. Starting out from point "a" would be an adventurous undertaking, but getting to point "b" would lead through chaos.

Economists are well acquainted with the fact that filling the needs of society creates further needs. The need to go from point "a" to point "b" created the need for roads, then for vehicles, then for road signs; for railways and airways, and then for timetables. In like manner did the need to go from point "a" to point "b" via the medium of radio, and later television, create the need for the World Radio TV Handbook. Just as, today, motor traffic would be unthinkable without road signs, so would radio and television, without the World Radio TV Handbook, be like an uncharted sea.

There is another aspect: one affecting short wave radio stations particularly. Whatever the pattern of their programmes, they all have a mission to perform. In the case of Radio Nederland – an independent, non-government organization – that mission is to acquaint listeners in neighbouring and far-off lands of Holland's place in the world; to create and foster goodwill for our country and to serve the interests of Dutch culture, Dutch industry and agriculture, Dutch tourism and Dutch life and thought in every field. The Dutch saying "To be unknown is to be unloved" contains a self-evident truth. That Radio Nederland has only recently been voted a much-loved station proves first and foremost that it is a wellknown station. But that we – and many other stations with us – would be lesser-known were it not for the World Radio TV Handbook, is an undeniable fact. In this respect the publication plays an important part in the "putting over" of our message.

There is another saying: "Of the dead, nothing but good". But the World Radio TV Handbook is very much alive, and so one may presumably speak ill of it! However, the only indication that the Handbook is not all it should be, is that it becomes better each year. But then, so does good wine, and, to quote yet another saying: "Good wine needs no bush".

In this 20th anniversary year of the World Radio TV Handbook it is with pleasure and gratitude that I offer, also on behalf of my Organization, sincere good wishes to the publishers. May the years ahead continue to be years of happy collaboration.

L. F. TIJMSTRA
Director-General, Radio Nederland

T. D. R. Thomason

The power of radio and television broadcasting upon the human mind can be compared with that of nuclear energy upon matter. The responsibility for the proper use of that power lies with each and every member of the broadcasting profession. A sense of responsibility demands a global perspective, and the WORLD RADIO TELEVISION HANDBOOK is universally used throughout the profession for maintaining quick reference to the complexities of factors and details which make up the instant mass communications media. The WRTH is an indispensable pocket library which should accompany every radio and television broadcaster wherever he goes.

The awesome scope of radio and television coverage can best be illustrated by observing some of the related facts. Today, there is not a spot on this earth where one cannot pick up a radio signal in one language or another. It won't be long before television coverage will also be complete. There are almost 12,000 radio and television stations around the world. On the other hand, there are less than 8,000 daily newspapers in circulation. Over fifty countries have no daily publications at all! The impact of the spoken word is immediate and widespread, it will take many years before the printed word will find itself in all the nooks and crannies of the world.

The broadcasting media have the power to bring stability to all parts of the world. A recent study of the effects of broadcasting since its start in 1920 has shown that radio and television have played a major part in creating a desire for self-improvement among many people. In other words, broadcasting properly used can be a prime-mover of ideas. That it can also be a mover of products is self evident.

In a profession with such vast responsibilities, it has proven valuable to create a universal professional body to which all radio and television people could belong. The INTERNATIONAL BROADCASTERS SOCIETY was established in mid-1964 and its membership has grown with increasing speed. The WRTH has been one of the outstanding publications which the Society uses constantly.

Broadcasting, with all its applications, can be considered mankinds most powerful tool for the creation of a better world. The creation of the IBS has taken several years of thorough scholastic and practical research. The purpose of the Society is liaison between all persons and organizations concerned in any way connected with the profession. The IBS is the first coordinated attempt to bring unity to the entire profession. It is a huge task requiring regular contact with over 500 continental, national and regional organizations which serve specific interests within broadcasting. With the hundreds of thousands of individuals who have chosen radio and television as careers, it is essential they be able to develop a balanced professional self-awareness. The IBS has a vertical as well as a horizontal membership. The Society recommends the WORLD RADIO TELEVISION HANDBOOK to all its members. It is no coincidence that the Society's belief that "better broadcasting can make a better world" is in direct harmony with the wish of the WRTH: "For the promotion of a better understanding between the peoples of the world".

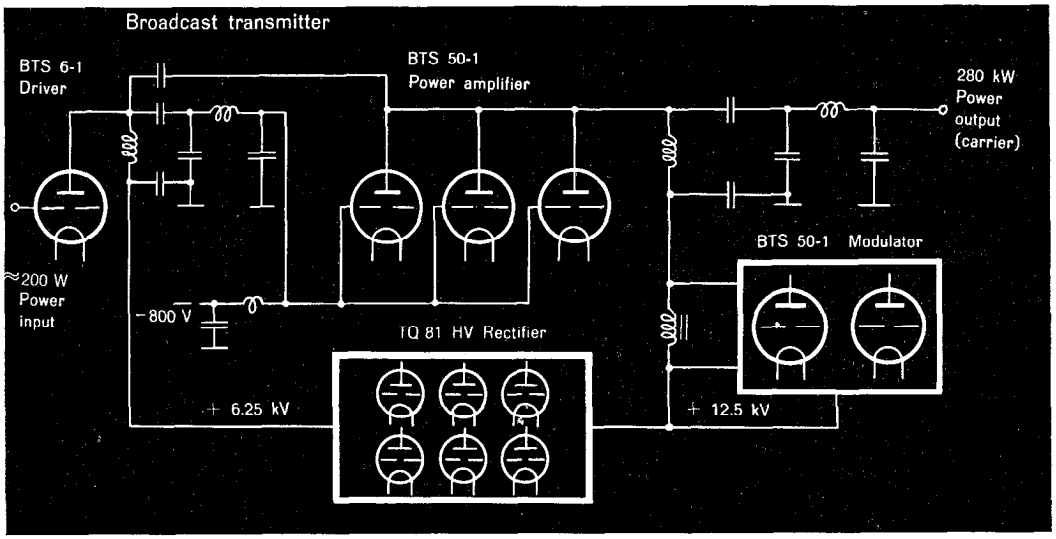
T. D. R. THOMASON
Executive Director,
International Broadcasters Society

Become a co-operator with the WRTH

From time to time you may hear a new station which has not yet been mentioned in the WRTH. If so, please help us to spread the knowledge of your findings to other DX-ers in the world by sending your findings to us.
Make an extra profit by distributing our folders. Please write for further details.

World Radio TV Handbook Co. Ltd.
Sundvej 6, Hellerup, Denmark.

Brown Boveri Electron Power Tubes for Broadcast and Communication Transmitters



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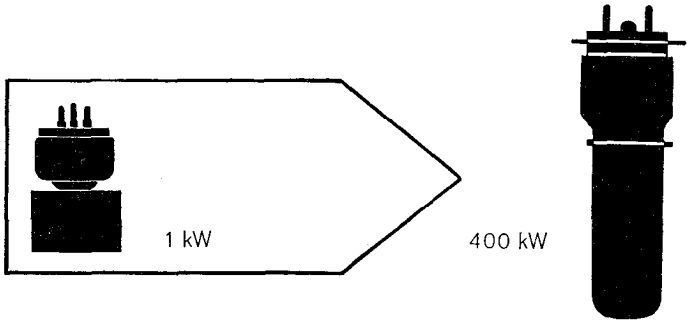

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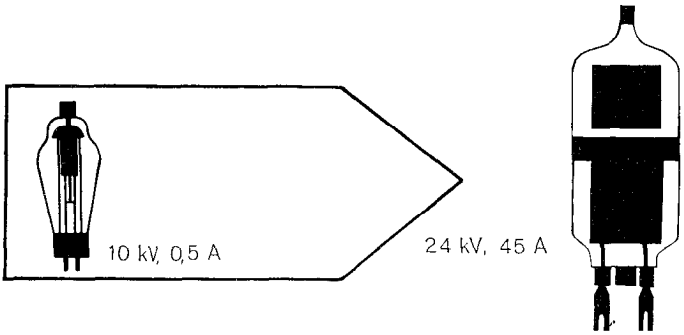

Complete Range of High-Voltage Diodes and Thyratrons

● **Power tubes to solve every transmitter problem** ● **Write for detailed information to**

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HOW TO USE THE WORLD RADIO TELEVISION HANDBOOK

The World Radio Television Handbook is designed to help the international radio listener obtain maximum enjoyment from his receiver.

The first section of the Handbook contains instructive articles relating to broadcasting, information regarding broadcasting and television organizations, and popular technical articles and tables of practical value to listeners.

The main section of the book (pages 94–248) contains detailed information, by country, of the **Radio Stations** and broadcasting organizations of every country in the world, including names and addresses of broadcasting companies, names and titles of leading officials, lists of broadcasting stations in each country, including frequencies, wavelengths, transmitter power, call signs (if used), and station names. Program information is also listed, including times, frequencies, and beam areas of the broadcasts in each language. The announced **location** of the st., rel. st's exc., is usually the studio and administrative location, since the tr's are often located in outlying areas. – **Power** is stated in kilowatt (kW) or Watt (W). When two powers are listed, the figures represent the lower and upper limits of power, where a station uses more than one tr. on the frequency at different times (s.w.) or varies the power of the tr. for day and night operation (m.w.).

A **listing by frequency and wavelength** of the shortwave stations of the world, and long and medium wave stations of Europe, North Africa, Near East is presented in the last part of the Handbook, for use in facilitating the identification of stations.

Abbreviations: See page 74 for explanation.

Short-wave stations may be used either for domestic broadcasting to listeners in the same country of for international broadcasting directed to listeners in other countries.

International short-wave stations usually employ directional antennas to beam their programs to particular areas on frequencies calculated for best reception. Most international broadcasts are scheduled for the evening hours in the intended reception area, but some are in the morning or at other times during the day. The reception areas give their names to the services: European Service, Far Eastern Service, North American Service, etc. Languages employed are those of the listeners in the area to which the broadcast is directed, also the language of the transmitting country for reception by persons understanding that language.

Best reception is usually obtained from transmissions directed to your area. However, there is a considerable amount of overlapping between many service areas and, therefore, it is often possible to obtain good reception of programs beamed to adjacent areas, and sometimes, even of programs directed to distant parts of the world. Shortwave propagation conditions chance continually because of the influence of daylight and darkness, seasonal effects and solar activity. Consequently, good reception requires frequency change from time to time.

See article Radio Broadcast Reception Conditions on pages 34 and 36.

Domestic short-wave stations are usually of lower power than international stations, and generally use non-directional or wide beam antennas, in order to reach local or national audiences. These stations make fewer seasonal frequency changes, and many operate on the same channel for both day and night operation. The stations are utilized to reach areas of a country where coverage by medium and long wave stations is not adequate.

Long and Medium wave stations are used mainly for transmitting programs to listeners in the country in which the stations are located. These stations vary from powerful transmitters capable of being heard throughout the country to low power stations intended only for a small area in the vicinity of the transmitter.

FM (Frequency Modulation) Stations operate on very high frequencies (VHF); ranges of 88-108 Mc in the Americas and 87-100 Mc in other areas, and provide interference-free reception over a short radius. Most FM stations relay programs of a medium or long wave station.

Frequency and Wavelength – Frequencies are measured in kilocycles per second (kc/s) and megacycles per second (Mc/s). A kilocycles is 1000 cycles. A megacycles is 1000 kilocycles. Wavelengths are measured in meters.

A formula between frequency and wavelength is as follows: Frequency (kc/s) $\times$ Wavelength (m) = 300000. Wavelength (m) $= \frac{300000}{\text{Frequency (kc/s)}}$ and Frequency (kc/s) $= \frac{300000}{\text{Wavelength (m)}}$.

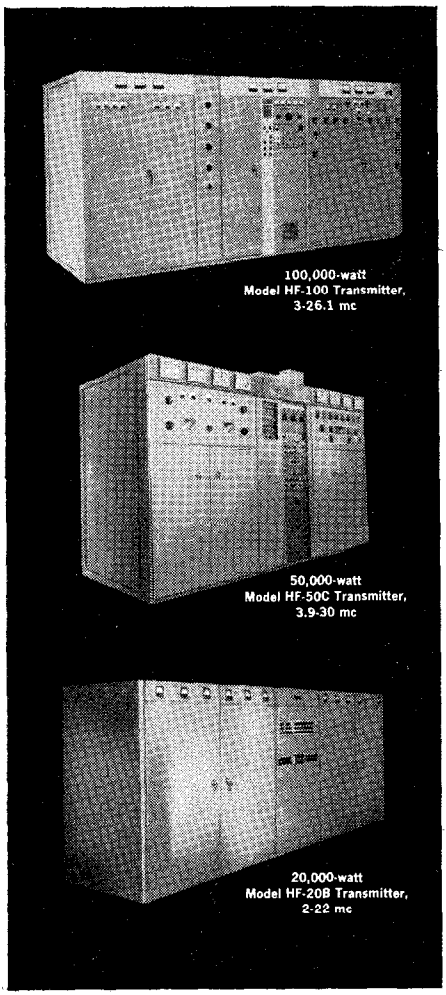
Due to the propagational conditions, interference by other stations, jamming, malfunction of transmitter, reallocation of frequencies by a country or convention, or for some other reason, stations may use frequencies which are at variance with the frequency(ies) indicated in this handbook.

Program times used in the listings are based on the 24 hour clock. Midnight is 00.00 hours, 3 a.m. is 03.00 hours, 9 a.m. is 09.00 hours, and midday is 12.00 hours. Then, instead of starting another 12 hour cycle (p.m.), under the 24 hour system the hours increase until midnight. Thus 3 p.m. is 15.00 hours, 10 p.m. is 22.00 hours, and so on until 23.59 (11.59 p.m.) is reached and a new 24-hour cycle starts. This system eliminates any confusion between times a.m. and p.m.

Time Conversion: All programs are listed in GMT (Greenwich Mean Time). To convert from GMT to your local time, refer to the World Time Table on page 72 to determine how many hours your time is ahead or behind GMT, and add or subtract that amount in order to convert to your clock time. For quick conversion, it is useful to write the GMT hours, 00 to 24, down on one side of a sheet of paper, and then enter the correct local time opposite each GMT hour. Summer time or Daylight Saving time, adds an hour to local time, so this should be taken into account in countries where it is utilized.

Program schedules: The program schedules of many countries are divided into Home Services and Foreign Services. The Home Service programs are arranged by language and by program services or networks. The Foreign Service transmissions are generally arranged by beam area, and by language for each beam area. The times and frequencies of the programs in each language are listed together, in order to facilitate the determination of the times and frequencies of the broadcasts in each language. The times of news broadcasts and other program features are also included.

Therefore, if you wish to hear a broadcast in a particular language from a country, refer to the listing for that country of the time and frequency of broadcasts in that language. Most broadcasts are transmitted on more than one frequency, so try the



Continuous front-panel tuning

...exclusive in Gates' 50 KW and 100 KW high-powered, short-wave broadcast transmitters

The unique design of the Gates Model HF-100 and Model HF-50C high-frequency broadcast transmitters incorporates one tuned line tank circuit. This permits continuous coverage without the inconvenience of plug-in coils. Both transmitters are air cooled, employ high-level plate modulation and use dependable long-life silicon rectifiers. Compact size permits installation in a minimum of floor space.

Field proven, these short-wave transmitters are built for continuous operation under extreme environmental conditions, and assure an operating economy second to none.

With seven models, from 1 KW to 250 KW, Gates offers the world's most complete range of high-frequency broadcast transmitters. Write for individual technical brochures.

The table below illustrates the completeness of the Gates HF broadcast transmitter line.

Power Output	250 KW	100 KW	50 KW	20 KW	10 KW	5 KW	1 KW
Model	HC-114*	HF-100	HF-50C	HF-20B	HF-10B	HF-5B	HF-1M
Frequency Range	3.95-26.5 mc	3-26.1 mc	3.9-30 mc or 3-26.5 mc	2-22 mc or 4-22 mc	2-22 mc or 4-30 mc	2-22 mc or 4-30 mc	2-32 mc

*The HC-114 is automatically tuned to any one of 20 preset frequencies.

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HOW TO USE *(continued from page 16)*

various frequencies listed, to determine which one is received best at your location.

Identification of Stations: Most stations in Europe, Middle East, Africa and Asia identify by announcing their station name and location. Most stations in North America and Pacific (incl. Australia/New Zealand) identify by the use of a call sign of three to five letters or a combination of letters and figures, of which the first, or first two, denote the nationality in accordance with the international list of prefixes. Most stations in Latin America use a call sign (sometimes not frequently announced), a station name, and location.

In addition, many stations use musical interval signals at sign on and between programs, in order to help listeners to find the station on their dial and identify it as the desired station. These interval signals are included in the country listings.

How to identify a Station by Frequency or Wavelength: When you hear a station that is unknown to you, first try to determine some clue to its identity by attempting to determine the language, noting the type of program, etc. Then, note the approximate frequency or wavelength indicated on your dial, and turn to the table "Short-wave Stations of the World" in the back of the Handbook, and ascertain what stations operate in that vicinity. Next, check the program listings to determine which of the stations are scheduled to operate at that time of day, and which are most likely to be audible at your location, depending on the power and distance away. For definite confirmation, it is desirable to wait for station announcement or interval signal.

Frequency Changes: The frequencies listed are those which were scheduled for use at the time of publication. However, due to a number of reasons, including interference and changes in propagation conditions, it may be necessary for a country to make frequency changes. Often only one of the frequencies on a program will be changed, so the new frequency can be determined by tuning in the other frequencies and listening for the announcement of the frequencies being used. Reference to a publication listing the latest frequency changes for the International Stations: the **Summer-Supplement to the WRTH** (published by mid June each year) or a monthly short-wave listeners publication issued in your country, is also helpful.

Interference: Due to the present crowded condition of the medium and short wave broadcasting bands, interference may be encountered from other stations operating on the same or closely adjacent frequency. In addition to interference from other broadcast stations, there may also be interference from "jammers", which transmit a variety of noises in an attempt to prevent certain foreign broadcasts from being heard in the country operating the jammers. When interference is encountered, try another of the listed or announced frequencies, if several are in use, or try a broadcast at another time.

Reception from Hard-to-Hear Countries: If you wish to hear a station or program from a particular country, refer to the listing from that country, determining first whether it has any broadcasts beamed towards your area or adjacent areas, if not, refer to the frequency, time and power listing to determine where and when reception might be possible. Also, note the bands and times when stations in other countries in that part of the world are audible. It is possible to hear many far distant stations, even if they do not beam programs to your area, by listening when the propagation and clearness of channel conditions are favorable.

Verification by QSL-cards: As indicated in the program listings for the various countries, many stations are interested in receiving reports from listeners about their transmissions. These stations acknowledge reports by sending listeners a QSL card (verification) or letter. Most **international** broadcasting stations do not require enclosure of return postage and will reply with a QSL card or letter. **Domestic** broadcasting stations do not normally request reports from foreign listeners, so return postage should be sent with reports to these stations. Return postage should be sent in the form of an International Reply Coupon (IRC), obtainable at post offices in most countries. Reports should be sent to the station address given in the country listings. They can be written in English in most cases, but Spanish is preferred by South and Central American stations.

Reception reports are useful to radio engineers in selecting the most suitable frequencies for broadcasts beamed to your area. Reports are preferred in the SINPO code, which is as follow:

S (Signal Strength)	I (Interference)	N (Noise)	P (Propagation Disturb.	O (Overall Merit)
5 excellent	5 nil	5 nil	5 nil	5 excellent
4 good	4 slight	4 slight	4 slight	4 good
3 fair	3 moderate	3 moderate	3 moderate	3 fair
2 poor	2 severe	2 severe	2 severe	2 poor
1 barely aud.	1 extreme	1 extreme	1 extreme	1 unusable

Information about **Television Stations** is provided in the section following the radio section, including names and adresses of Television companies, location, power and channel of Television stations, and program schedules of these stations.

With reference to the first Television page we give a short explanation of some of the technical words and figures mentioned—The announced **location** of the station is usually the studio location, since most TV tr's are situated upon the highest location in the area in order to obtain more widespread coverage—Two systems of **modulation** are used to transmit the audio signal of the TV st's either frequency modulation (FM) or amplitude modulation (AM). All video transmissions are normally amplitude modulated — **Polarization** signals are horizontally polarized (H) or are vertically polarized (V). Polarization is usually selected according to the need for a reduction of interference with other stations, or to obtain engineering standards required by the government of the country in which the st. is located — The **band width** is shown in Mc and represents the limits within which both the video and audio tr. are contained — **Number of lines** transmitted express the number necessary to form one complete frame or picture, and **frames** state the number of times per second the picture area is completely scanned—**Video and Audio Power** is indicated in kilowatt (kW) or Watt (W). In the most cases the figures denote the effective radiated power (ERP) due to the stations antenna system—**Video and Audio Frequency** is stated in Mc per sec. The relationship between the quoted figures and the limits of the video band varies among countries and can be determined by reference to the standards of the systems used by the resp. countries.

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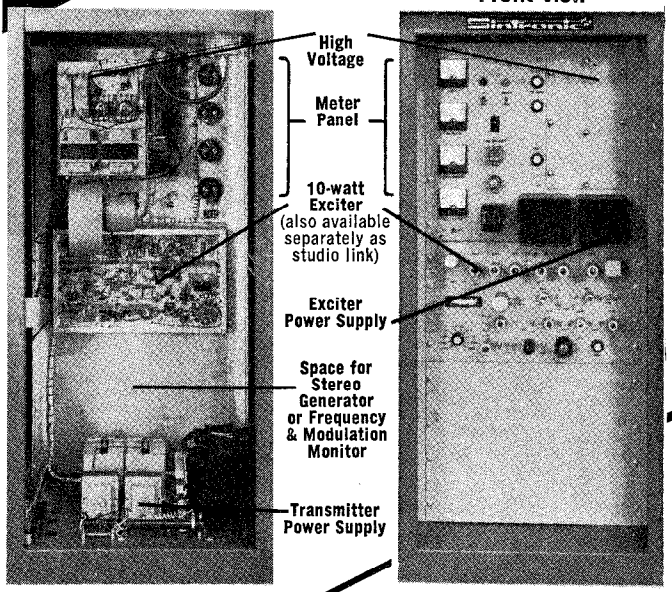
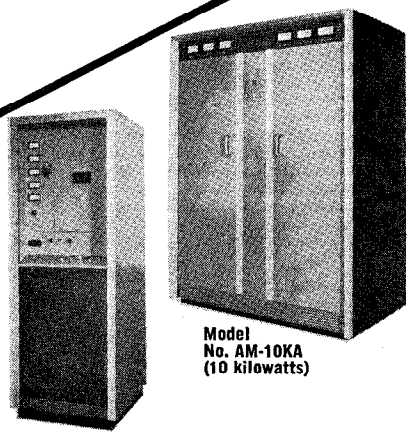
Rear view **Front view**





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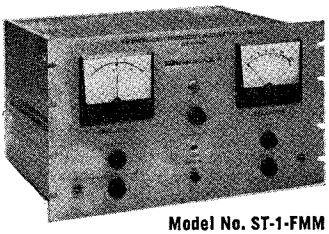

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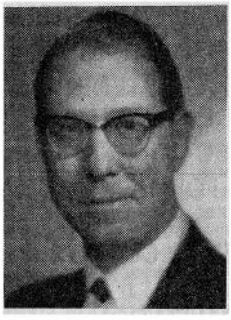

Henrik Hahr

The World Radio TV Handbook gives an excellent survey of the activities of the broadcasting organisations around the world. It shows the development and growth of our electronic media. For the European Broadcasting Union (EBU) it is essential to follow by various methods what is happening in the broadcasting field as the EBU itself reflects the achievements in many broadcasting services. It is interesting to note in this respect how the EBU from being an international organisation mostly dedicated to discussions and consulation on the actual policy to be held on general problems has in these five years become more and more an operational programmes organisation with all the relevant consequences in the technical, legal, administrative and accounting field. The increase in the number of television services connected to the Eurovision network, the introduction of 2nd and 3rd Television Programmes in several countries and the introduction of intercontinental transmissions are some new important factors. The World Radio TV Handbook tries to sum up in an efficient and accurate way the actual situation and the trends of tomorrow and it is consequently to be congratulated on the services it is rendering experts and students of this important means of communication.

HENRIK HAHR
Director of the Administrative Office of the European Broadcasting Union, Geneva

"I would like to congratulate most warmly all those who have been directly responsible for the preparation and publication of the Handbook on 20 years of service to broadcasters, listeners and viewers throughout the world.

During this time WRTH has played an unobtrusive but invaluable role in bringing the messages of many different broadcasting organisations to the ears—and eyes—of millions of people both near and far. And by providing so much information vital to our day-to-day activities, it has proved to be a virtually irreplaceable aid to all those of us associated with or interested in the field of broadcasting.

On behalf of the NZBC I take this opportunity of wishing WRTH continued success in the years ahead—may its next 20 years be as worthwhile as the 20 years just past".

G. H. STRINGER
Director General, New Zealand Broadcasting Corpo.

Gerald C. Gross.

I am glad to offer my congratulations to the World Radio TV Handbook on the occasion of its 20th anniversary edition.

We can understand the Handbook's pride in having reached such a landmark since the International Telecommunication Union has just celebrated its Centenary.

In the twenty years of its existence, the Handbook has come to be recognized as a valuable medium for spreading knowledge of countries and their radio and television stations to listeners and viewers throughout the world, thereby contributing to greater cooperation in broadcasting, which is also one of the objects of the ITU.

In sending our congratulations to the Handbook on this occasion, I do not think that it is premature to hope that it too will one day be celebrating its Centenary.

GERALD C. GROSS
Secretary-General
International Telecommunication Union

Years ago the World Radio TV Handbook introduced me to broadcasting. Its pertinent facts and figures helped to build up my own picture of the world of sound broadcasting.

During the planning stage of Station ETLF and ever since Radio Voice of the Gospel went on the air in early 1963, the Handbook has constantly been within close reach.

DR. SIGURD ASKE
Director General Radio Voice of the Gospel

On the occasion of 20th Anniversary of World Radio TV Handbook I send you my sincerest congratulations and the best of wishes for continual success.

To speak again of the importance of Radio and Television is repeating over and over again what has already been widely known all over the world. However, I cannot refrain myself from saying that this medium plays a vital role in the different fields of Mass Communications and in establishing better understanding among peoples of all nations.

In having such a Handbook as World Radio TV Handbook at hand, with all the information one is in need of, it is so easy to comprehend the facilities given to all who work in this medium to get in touch with the various organisations.

May World Radio TV Handbook continue to be a valuable guide to those working in Radio and Television, and go on as always treading the path of success.

A. YOUNES
Secretary-General URTNA

Now in its second year of providing a unifying force linking every major listeners club on this continent, the Association of North American Radio Clubs offers heartiest congratulations to World Radio TV Handbook on the publishing of its 20th Anniversary jubilee edition!

Over the years, WRTH has continued to expand the size and scope of its publication, always with the purpose of creating a practical tie between the various broadcasting organizations and radio listeners. Just a decade ago, in a foreword written in the 1956 WRTH, the director of the European Broadcasting Union cited the publication for the progress made in the first ten years. L. Wallenborn pointed out, however, that with the expanding potentialities of the broadcasting field, "the World Radio Television Handbook has also therefore still before it a life full of promise."

We, of ANARC, are pleased to note that during the past ten years, this prediction has certainly come true. Further, looking forward to the years ahead, we feel sure that WRTH will continue on the same upward path, providing the listeners of North America and the world with a publication so invaluable.

DON JENSEN
Executive Secretary,
Association of North American Radio Clubs

On the occasion of the twentieth anniversary of the World Radio Television Handbook, I should like to add my voice to the multitude of others coming from various nations of the world, felicitating the Handbook on the completion of two decades of significant service in the cause of international broadcasting.

During the two decades of its existence the World Radio Television Handbook has made distinctive and significant contributions to the cause of international broadcasting. In handy and compact form it packs a wealth of detailed information. Anyone associated with the field of international broadcasting—whether secular or religious—finds this an invaluable and helpful tool.

We congratulate the World Radio Television Handbook on its twentieth anniversary, and commend it to hosts of others dealing with radio and television on an international basis.

May the Handbook continue to make its important contribution toward a better understanding between various nations of the world, and toward better cooperation between radio and television stations in various lands.

Hearty congratulations on a significant milestone!

EUGENE R. BERTERMANN
President, National Religious Broadcasters

All those who are familiar with the World Radio TV Handbook will agree that it is a most excellent and valuable publication edited with extraordinary care and containing a remarkable amount of detailed information. They may perhaps be surprised and interested to learn that it is already twenty years old, and I can well imagine that like me they will be wondering how they managed before it existed. In my work as Head of Overseas & Foreign Relations in the BBC I have continual need to refer to it on some detail or other, and indeed in my department and in many others too it is in almost daily use. But clearly it is also a most attractive book for all those who take an interest in broadcasts from countries other than their own, and whose interest extends to the organisations behind the programmes they hear. I should like to congratulate the World Radio TV Handbook on a most successful past twenty years and wish it the best of luck for the future.

DONALD STEPHENSON
Head of Overseas and Foreign Relations,
British Broadcasting Corporation, London

The World Radio Television Handbook has always been providing us with all necessary and up-to-date information regarding organizations, external broadcasts and most eminent staff members of world radio and television services. I think all this is of great importance in the field of our worldwide cooperation and helps us in establishing mutually advantageous relations with each other.

The Hungarian Radio and Television was always glad to take advantage, with pleasure and confidence, of this unparalleled reference service which proved to be indispensable for professional orientation indeed.

I express my best wishes for a continued service of World Radio Television Handbook, as successfully as it was during the past 20 years, trusting that its growing activity will bring further contribution to a better understanding and cooperation among broadcasting and television organizations.

MRS. VALERIA SZARKA
Head of Foreign Relations Service
Hungarian Radio and Television

Zwei Dezennien sind vergangen, seit dem das World Radio TV Handbook zum ersten Mal erschien, und es ist uns ein angenehmes Anliegen, Sie zu diesem verdienstvollen Jubiläum zu beglückwünschen.

Mit seinen vielfältigen und exakten Angaben in seiner Übersichtlichkeit und mit seinem sorgfältigen Druck besitzt das World Radio TV Handbook einen hohen und steigenden Informationswert. Wir haben ihn in den weit über zehn Jahren, in denen wir zu Ihrem Leserkreis gehören, kennen und schätzen gelernt.

Angesichts der raschen quantitativen und der qualitativen Veränderungen im internationalen Rundfunkwesen gebührt Herausgeber und Redaktion besonderer Dank für Ihr erfolgreiches Bemühen, jede Ausgabe dem allerneuesten Entwicklungsstand anzupassen. Dabei finden unser Interesse vor allem die Veröffentlichungen über die außereuropäischen Rundfunkorganisationen und -stationen, die vornehmlich im letzten Jahrzehnt entstanden oder sich entwickelten und in ihren Hörbereichen zu unentbehrlichen Vermittlern humanistischer Bildung wurden.

Das World Radio TV Handbook ist uns nicht zuletzt deshalb zu einem ständigen Begleiter bei der täglichen Arbeit geworden, weil wir in ihm einen Mittler in den Beziehungen zwischen vielen Rundfunkanstalten sehen. Bei der edlen Aufgabe des Rundfunks, völkerverbindend zu wirken und Verständnis für einander zu wekken, möchten wir es als Helfer nicht missen.

Es ist uns darum eine Freude, Ihnen auch für das nächste Dezennium des World Radio TV Handbook recht viel Erfolg und auch persönliches Wohlergehen zu wünschen. Und wir bitten Sie, es mehr als einen Akt der Höflichkeit zu betrachten, wenn wir uns gestatten, in diese Wünsche alle anderen am Zustandekommen des World Radio TV Handbook Beteiligten mit einzuschließen.

MATHIAS MÜLLER
Direktor für Internationale Verbindungen
Deutscher Demokratischer Rundfunk

We advertise in your publication because it is a worldwide publication reaching all persons engaged in broadcasting both in engineering and production.

Since we are an international company it is necessary for us to keep our name before all persons concerned with broadcasting throughout the world. This we do in several ways one of which is by advertising in World Radio Television Handbook.

A.E. Oates, Press & Publicity Manager
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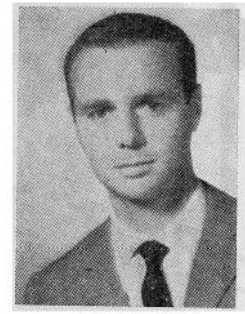

René Marchand

Le développement "explosif" de la radio et de la télévision en Afrique, qui ressort si nettement à la lecture des dernières éditions du WRTH est, à nos yeux, non seulement un signe évident de la vitalité actuelle de notre continent, mais encore la promesse d'un avenir riche de réalisations utiles.

Ce qui frappe avant tout lorsqu'on considère le fonctionnement des stations de radio-télévision en Afrique, c'est que, contrairement à ce qui s'est passé dans d'autres régions en voie d'équipement, ces mass-media n'ont pas été asservies à des fins commerciales. Très tôt, des responsables ont su discerner quel extraordinaire outil de développement pouvaient être les techniques de radio là où les routes, les livres, les sources d'énergie, les maîtres aussi sont en nombre insuffisant. Très vite, quelques pionniers ont su démontrer que la radio devait être un investissement rentable – d'autant plus rentable que son rôle s'articulait dans un plan de développement national (et à cet égard l'action des hommes de la Société de Radiodiffusion de la France d'Outre-Mer et de la Radiodiffusion – Télévision Française nous parait avoir eu, en maints endroits, une valeur exemplaire).

C'est sur le plan proprement politique, sans doute, que l'activité de la radio-télévision en Afrique a été le plus notable. Elle seule, par son omniprésence, a permis de resserrer les unités nationales. Elle seule peut sauver et enrichir les particularités locales, qui toutes ensemble forment la personnalité du continent, et les intégrer dans les grandes unités géographiques, culturelles, économiques et politiques qu exige notre temps.

Bien sûr, le tableau a ses zones d'ombre. L'instrument magique n'a pas eu que des effets bénéfiques: trop de gouvernants l'ont utilisé à des fins contestables et, pour parler net, n'ont vu en lui qu'un moyen de porter la subversion chez le voisin. Cela est indéniable. Mais, comme on dit, "le remède est dans le mal lui-même" et le temps de la subversion s'achève: la multiplication des stations d'émission, donc des sources d'information auxquelles l'auditeur peut se référer pour se faire une opinion, s'accompagne partout d'un accroissement de la démocratie. Nul doute que le progrès technique, en augmentant le nombre de récepteurs simples, bon marché, en déversant partout le son et l'image venus de partout, accélérera encore le processus.

C'est en partant de cette analyse des faits et des perspectives que l'O.R.T.F. a conçu son action à Djibouti. Dans notre région déshéritée, où la seule richesse est constituée par le travail et la dignité des hommes de nos diverses communautés, il importe que notre action soit tout entière "au service de l'homme" – pour reprendre la belle expression du Président de Gaulle – C'est là notre but et c'est là; notre justification.

RENÉ MARCHAND
Chef des services de l'ORTF à Djibouti

Considero que la tarea de cooperación internacional que significa la sola simple edición del WORLD RADIO TV HANDBOOK es suficientemente importante por sí misma y lo que aún es más admirable, es la tenacidad en la continuidad de la diferentes ediciones anuales y del suplemento de verano.

Tal vez solo sea necesario pedir a las emisoras de los diferentes paises una mayor exactitud en los datos que facilitan al WRTH, ya que aunque por lo general resulten exactos, no lo es asi en lo que a su totalidad se refiere, juicio crítico que creo bueno hacer en beneficio de todos.

El hecho de poder consultar un anuario como éste y conocer con claridad las diferentes gamas de onda en que trabajan todas las emisoras del mundo, es demasiado interesante para no insistir en este aspecto de la cuestión.

ANIBAL ARIAS RUIZ
Jefe del Centro de Producción de Programas
de Radio Nacional de España

Wir inscrieren im World Radio TV Handbook, weil wir hoffen, uns auch auf diesem Wege bei den Rundfunk- und Fernseh-Sendegesellschaften des In- und Auslandes in Erinnerung zu bringen.

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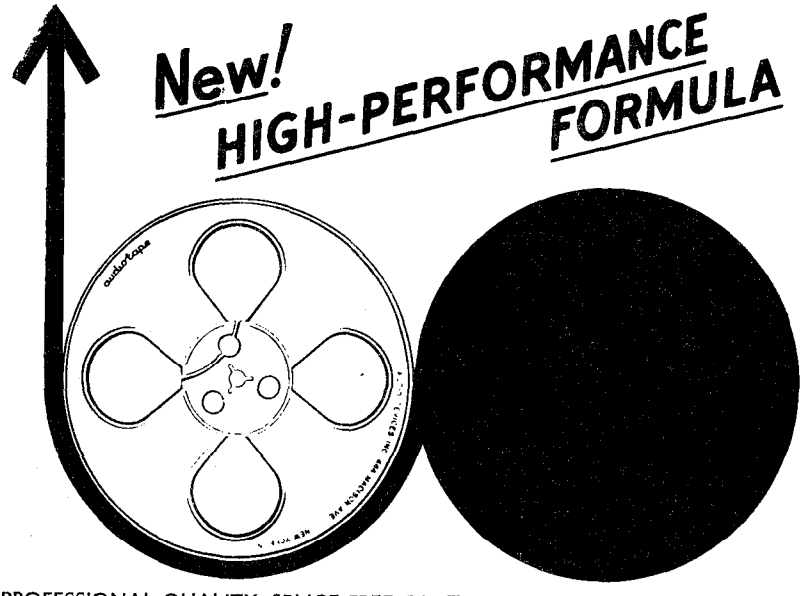

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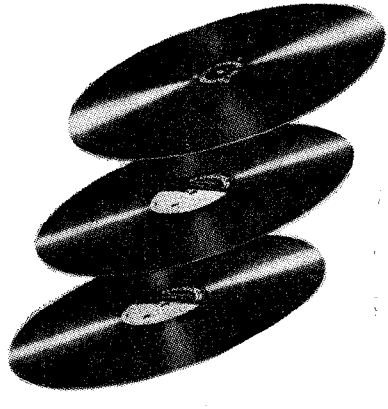

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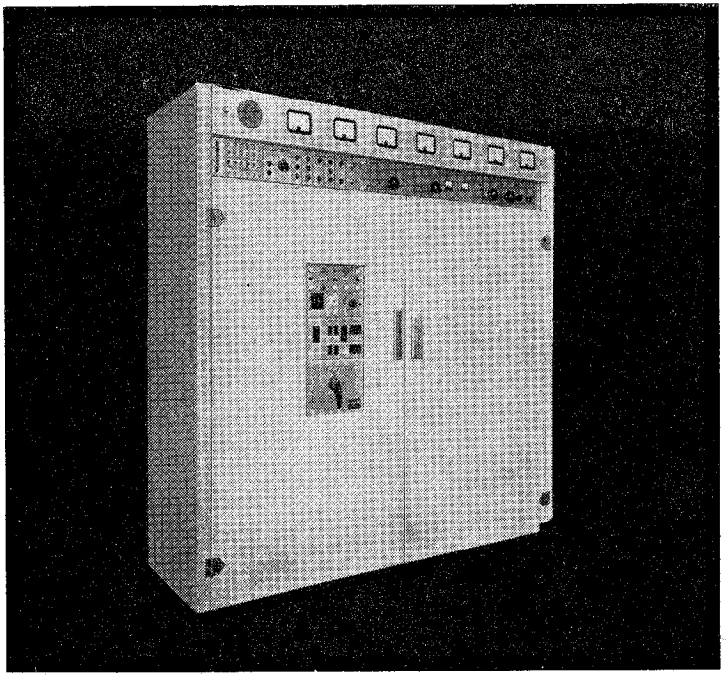

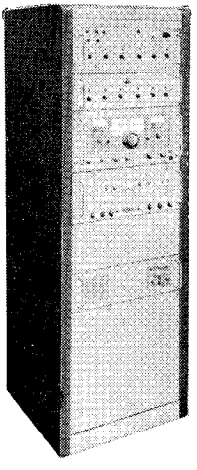

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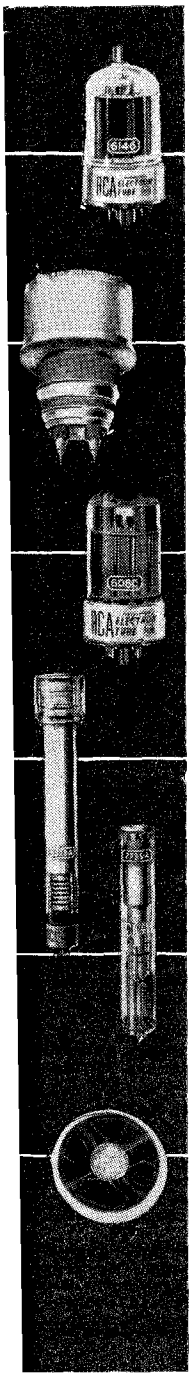

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LARGE POWER TUBES. Shown is RCA-6166A/7007. Continuing search for tube betterment has increased the life expectancy and improved the performance of RCA-6166A/7007, an example of design and performance available in a wide choice of broadcast tubes for audio and video service at VHF and UHF.

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IMAGE ORTHICONS. Shown is the RCA-5820A, typical of the RCA Image Orthicon line whose performance rivals that of any on the market today. For color and black-and-white pickup—studio or outdoor—you can always be sure of improved background uniformity, higher signal output levels, higher signal to noise ratio, reduced microphonics, and improved sensitivity. Other popular types: RCA-7293A and -7295A.

VIDICONS. Shown is RCA-7735A. RCA has vidicons for every TV application. In the industry's broadest line of types, you can find a size, sensitivity, and range of electrical characteristics to meet color and black-and-white TV pickup requirements exactly. Custom types, too.

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INTERNATIONAL BROADCASTING AND TELEVISION ORGANIZATIONS

EUROPEAN BROADCASTING UNION (EBU) UNION EUROPEENNE DE RADIODIFFUSION (UER) EUROVISION

Seat and Administrative Office: 1, rue de Varembé, Geneva, Switzerland.
Technical Centre: 32, av. Albert Lancaster, Brussels, Belgium.
Receiving and Measuring Station: Jurbise (Belgium).
Administrative Council: President: Mr. J. B. Broeksz, NTS-NRU (Associations of Dutch Radio and Television Organizations). Vice-President: Sir Hugh Greene, BBC (British Broadcasting Corporation).
Administrators: Representatives of broadcasting organizations in: Denmark, Finland, France, Germany (Fed. Rep.), Ireland, Italy, Netherlands, Portugal, Switzerland, United Kingdom (BBC) and Yogoslavia.
Directors: Director, Administrative Office: H. Hahr. **Director of Legal Affairs:** G. Straschnov. **Director of Technical Centre:** G. Hansen.
Active Members: The broadcasting organizations of: Austria, Belgium, Denmark, Finland, France, German Fed. Rep. (ARD, ZDF), Greece, Iceland, Ireland, Israel, Italy, Lebanon, Luxembourg, Monaco, Netherlands, Norway, Portugal (ENR, RTP), Spain, Sweden, Switzerland, Tunesia, Turkey, United Kingdom (BBC, ITA/ITCA), Vatican State, Yugoslavia.
Associate Members: The broadcasting organizations of: Australia (ABC, Federation of Australian Commercial Television Stations), Brazil (Associação Brasileira de Emissoras de Rádio e Televisão, Diarios Associados Ltda., Emissoras Unidas de Rádio e Televisão), Canada (CBC), Ceylon, Chad, Congo (Léopoldville), Cyprus, Dahomey, Gabon, Ghana, Haiti, Ivory Coast, Japan (NHK, NAB), Kenya, Liberia, Malawi, Malta, Mexico, Morocco, New Zealand, Niger, Nigeria, Pakistan, Rep. of South Africa, Southern Rhodesia, Tanganyika, United States (ABC, BFA, CBS, NAEB, NBC, NET, Time-Life Broadcast Inc., US Information Agency), Upper Volta, Zambia.
Publications: EBU Review – every month in English and French, published in two separate parts: A (Technical) and B (General and Legal) – Long and Medium wave reports (European Area) – Lists of European stations (long and medium waves, UHF sound broadcasting, and television) – General, legal and Technical Monographs.

INTERNATIONAL RADIO AND TELEVISION ORGANIZATION OIRT

Addr: 15, U Mrázovky, Prague 5, Czechoslovakia. **Cable:** Interadif, Praha.
Nature: International Organization dealing with practical and theoretical questions connected with broadcasting and television prgr's and technique and cooperation between broadcasting and television organizations.
Governing Body: General Assembly consisting of one representative for each active member.
Administrative Council: Consisting of 7 to 13 members, Chairman for 1963–1965: István Tömpe, President of the Hungarian Radio and Television. Vice-Chairman for 1963–65: R. Kane, General Director of the Radiodiffusion Nationale of the Republic of Mali, and S. Zhalan-Azhav, President of the Information and Radio Administration of the Mongolian People's Rep.
Members: Representatives of the Radio and Television Organizations of the Bulgarian People's Rep; Finland, Hungarian People's Rep; Latvian SSR; Republic of Mali; Mongolian People's Rep; Chinese People's Rep; Czechoslovak S. Rep, and the U.S.S.R.
Members: Radio and Television Organizations of: The People's Rep. of Albania; Belorussian SSR; People's Rep. of Bulgaria; Chinese People's Rep; Rep. of Cuba; Czechoslovak S. Rep; United Arab Rep; Estonian SSR; Finland; German Democratic Rep; Hungarian People's Rep; Iraq; Korean People's Democratic Rep; Latvian SSR; Lithuanian SSR; Rep. of Mali; Moldavian SSR; People's Rep. of Mongolia; People's Rep. of Poland; Rumanian Socialist Rep; Ukrainian SSR; Union of Soviet Socialist Rep; People's Democratic Rep. of Vietnam.
Facilities: Administrative Office and Technical Centre, Prague, Czechoslovakia.
Specialized Commissions: Technical Commission: Chairman: Z. Zherkov (Bulgarian People's Rep.). Radio Prgr. Commission: Chairman: R. Grimmer, First Vice-President of the Radio & Television Organization of the German Democratic Rep; Television Prgr. Commission and Intervision Council: Chairman: N. A. Skatchko, Ukranian SSR.
Publications: Review of the International Radio and Television Organization (OIRT) "Radio & Television" in English, French, Russian and German, issued every two months. Monthly OIRT Information, and quarterly Catalogues of prgr's suitable for exchange: a) radio, b) television.
Meetings: General Assembly every two years, Administrative Council every year.
Relations with all important organizations active in the field of radio and television.

INTERNATIONAL TELECOMMUNICATION UNION

Addr: Place des Nations, 1211 Geneva 20, Switzerland. **Te:** 237000–348000.
Secretary General: Dr. Manohar Balaji Sarwate, India.
Intern. Frequency Registration Board (IFRB). Chairman: Jerzy Ziokovvski, Pologne.
Intern. Tel. & Tel. Consultative Committee (CCITT).
Dir: J. Rouvière, France.
Intern. Radio Consultative Committee (CCIR). Dir. ad interim: Leslie W. Hayes, United Kingdom. Study Group X (broadcasting). Chairman: A. P. Walker, USA; Study Group XI (television), Chairman: E. Esping, Sweden; Study Group XII (Tropical Broadc.), Chairman: N. V. Gadadhar, India.
Administrative Council: Algeria, Argentina, Australia, Brazil, Canada, China, Dahomey, Ethiopia, Federal Rep. of Germany, France, India, Ireland, Italy, Japan, Lebanon, Malagasy Rep., Mexico, Morocco, Nigeria, Pakistan, Poland, Saudi Arabia, Switzerland, Uganda, United Kingdom, United States of America, USSR, Venezuela, Yugoslavia.
Membership (129 Members): Afghanistan, Albania (Peoples's Rep. of), Algeria (Dem. and Popular Rep. of), Saudi Arabia (Kingdom of), Argentine Rep, Australia (Commonwealth of), Austria, Belgium, Bielorussian SSR, Burma (Union of), Bolivia, Brazil, Bulgaria (Peoples's Rep. of), Burundi (Kingdom of), Cambodia (Kingdom of), Cameroon (Federal Rep. of), Canada, Central African Rep, Ceylon, Chile, China, Cyprus (Rep. of), Vatican City State, Colombia (Rep. of), Congo (Dem. Rep. of the), Congo (Rep. of the) (Brazzaville), Korea (Rep. of), Costa Rica, Ivory Coast (Rep. of the), Cuba, Dahomey (Rep. of), Denmark, Dominican Rep, El Salvador (Rep. of), Terr's represented by the French Overseas Post & Telecomm. Agency, Ecuador, Spain, USA, Ethiopia, Finland, France, Gabon Rep, Ghana, Greece, Guatemala, Guinea (Rep. of), Haiti (Rep. of), Upper Volta (Rep. of), Honduras (Rep. of), Hungarian People's Rep, India (Rep. of), Indonesia (Rep. of), Iran, Iraq (Rep. of), Ireland, Iceland, Israel (State of), Italy, Jamaica, Japan, Jordan (Hashemite Kingdom of), Kenya, Kuwait (State of), Laos (Kingdom of), Lebanon, Liberia (Rep. of), Libya (Kingdom of), Liechtenstein (Principality of), Luxembourg, Malaysia, Malawi, Malagasy Rep, Mali (Rep. of), Malta, Morocco (Kingdom of), Mauritania (Islamic Rep. of), Mexico, Monaco, Mongolian People's Rep, Nepal, Nicaragua, Niger (Rep. of the), Nigeria (Federal Rep. of), Norway, New Zealand, Uganda, Pakistan, Panama, Paraguay, Netherlands (Kingdom of the), Peru, Philippines (Rep. of the), Poland, (People's Rep. of), Portugal, Spanish Provinces in Africa, Portuguese Oversea Provinces, Syrian Arab Rep-United Arab Rep, Federal Rep. of Germany, Federal Socialist Rep. of Yugoslavia, Ukrainian SSR, Somali Rep, Rhodesia, Roumania (Socialist Rep. of), United Kingdom of Great Britain and Northern Ireland, Rwanda (Rep. of), Senegal (Rep. of the), Sierra Leone, Singapore, Sudan (Rep. of the), South Africa (Rep. of), and Territory of South-West Africa, Sweden, Switzerland (Confederation), Tanzania (United Rep. of), Chad (Rep. of the), Czechoslovak Socialist Rep, Territories of the USA, Overseas Terr. for the international relations of which the Gov. of the UK are responsible, Thailand, Togolese Rep, Trinidad and Tobago, Tunisia, Turkey, Union of Soviet Socialist Rep, Uruguay (Oriental Rep. of), Venezuela (Rep. of), Vietnam (Rep. of), Yemen, Zambia (Rep. of).

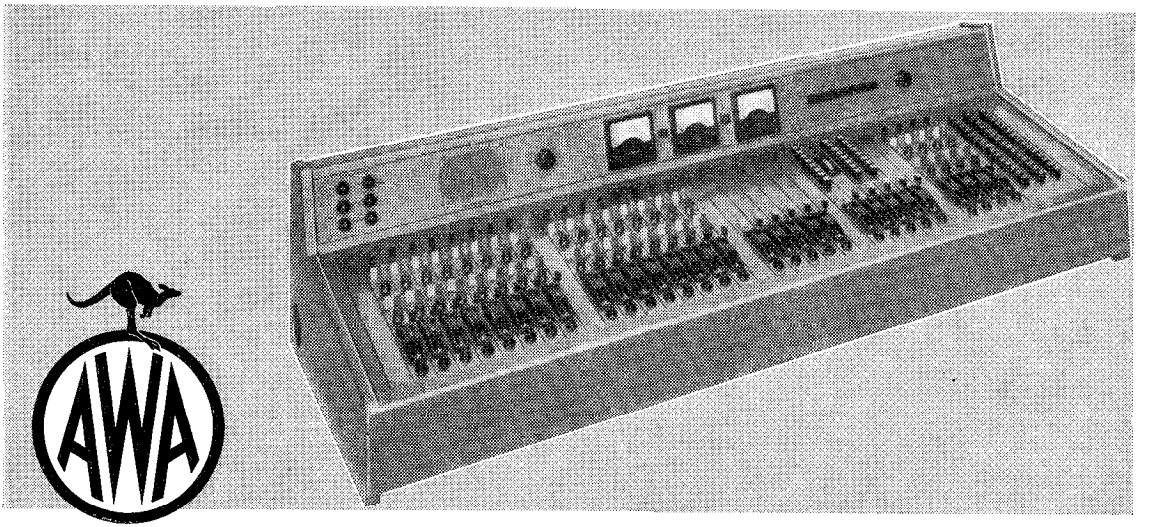
UNESCO

(United Nations Educational, Scientific and Cultural Organization).
Addr: Place de Fontenoy, Paris 7, France – **L.P:** Dir. Gen: René Maheu.
Department of Mass Communication: Dir: Tor Gjesdal.
Radio and Visual Information Division: Chief: Hans R. van Stuwe. Deputy Chief: Gerald S. Wade – Regional Units: Jean Bhownagary (Asia). Anatoli Bolgarev (Russian language production). Jean Calvel (French language production). Rex Keating (English language production). Fernando Restrepo (Spanish language production). Gerald S. Wade (North America).
Mass Communication Techniques Division: Chief: Pierre Navaux. Radio and TV techniques: Henry R. Cassirer.

UNION OF NATIONAL RADIO AND TELEVISION ORGANISATIONS OF AFRICA (URTNA)

URTNA is a Union of National Broadcasting Organizations of all independent Africa, its aims, under article 2 of its statutes are: – "The U.R.T.N.A. has no commercial aims. Its objects are: –

(a) To support in every field the interests of those African organisations operating radio and or television services that have accepted the present statutes and to establish relations with other international organisations.



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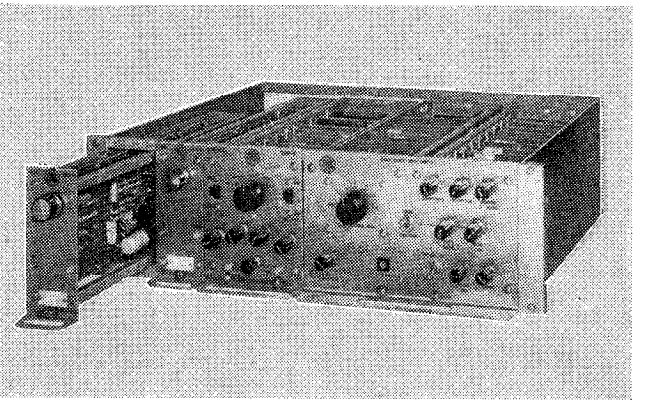

TOP: *24 Channel transistorised sound control console.*

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(b) to promote and coordinate the study of all questions relating to broadcasting and to secure the exchange of information on all matters of general interest to those radio and or television services.
(c) to take all possible steps designed to assist the development of African radio and television in all its forms.
to seek within the framework of African co-operation, the solution to any differences that may arise between members.
(e) to use its good offices to ensure respect by all members for the provision of international and inter-African agreements relating to all aspects of radio and television."

The Union headquarters is at the moment in Dakar and its Technical Centre at Bamako – The Pres. of the Union is Mr. W. F. Coleman, Ghana; Vice-Pres. M. Messaoudi Zitouni, Algeria. The Director of the Administrative Centre at the headquarters is Mr. A. H. Younes. members of the Administrative Council of the Union are Ghana, Algeria, Senegal, Mali, Cameroun, Ivory Coast, Guinea, Nigeria and Ethiopia – The Headquarters address of the Union is U.R.T.N.A, 15, Boulevard de la Republique, B.P. 3237, Dakar, Senegal.

ASIAN BROADCASTING UNION

Headquarters: ABU Secretariat, c/– NHK, Uchisaiwai-cho, Chiyoda-ku, Tokyo, Japan. **Cable address:** ABUNI, Tokyo.
Sec. Gen.'s Office: Box 3636, G.P.O., Sydney, Australia. Cable address: ASBUN, Sydney.
President: Yoshinori Maeda, President, Nippon Hoso Kyokai, Japan.
Administrative Council: Australian Broadcasting Commission, Broadcasting Corporation of China, All India Radio, Nippon Hoso Kyokai, Radio and TV Malaysia, New Zealand Broadcasting Corporation, Philippine Broadcasting Service, Radio Thailand, Turkish Radio and TV Corporation.
Secretary-General: Sir Charles Moses, C.B.E.
Full Members: Radio Afghanistan, Australian Broadcasting Commission, Broadcasting Corporation of China, All India Radio, Nippon Hoso Kyokai, Korean Broadcasting System, Radiodiffusion Nationale Lao, Radio and TV Malaysia, Radio Nepal, New Zealand Broadcasting Corporation, Radio Pakistan, Philippine Broadcasting Service, Radio and TV Singapore, Radio Thailand, Tonga Broadcasting Commission, Turkish Radio and TV Corporation, UAR Broadcasting Corporation, Radio Viet-Nam, Samoan Broadcasting Service.
Associate Members: Federation of Australian Commercial Broadcasters, Radio Brunei, Canadian Broadcasting Corporation, Fiji Broadcasting Commission, Office de Radiodiffusion Television Française, Radio Hong Kong, Hong Kong Commercial Broadcasting Co. Ltd., Nigerian Broadcasting Corporation, British Broadcasting Corporation, Independent Television Authority/Independent Television Companies Association Ltd. (U.K.), Columbia Broadcasting System (U.S.A.), National Broadcasting Company (U.S.A.), National Educational Television (U.S.A.), U.S. Information Agency, Time-Life Broadcast Inc. (U.S.A.).
The ABU is a Union of national broadcasting organisations in the Asian/Pacific region which was formally established on 1st July, 1964, following five Asian Broadcasters' Conference held between 1957 and 1963 in Tokyo, Kuala Lumpur and Seoul. The first annual General Assembly of the ABU was held in Sydney in November, 1964, and the second, attended by delegations from 25 members, in Tokyo in October, 1965.
Publications: ABU Newsletter (Monthly in English).

INTERNATIONAL BROADCASTERS SOCIETY (IBS)

Headquarters: 78 Zwaluwlaan, Bussum, the Netherlands. (Tel: 02959-10005).

Office for USA: 380 Lexington Avenue, Suite 303, New York City, N.Y., USA 10017. Telephone: 212 – MU 2-4500).

Nature: The IBS is a world body. It is a non-profit professional fellowship created to serve the needs of all persons and organizations everywhere concerned in any way with radio and television broadcasting.

The IBS functions as a permanent forum for maintaining liaison. It interprets the meaning of the word liaison in the broadest possible manner.

To fulfil its function as a universal professional body, the IBS has a vertical as well as a horizontal membership structure. All interested parties in broadcasting may belong, parallel with membership in other associations and federations.

There are three main types of membership. (i) Corporate, (ii) Personal and (iii) Free Exchange. Corporate membership is open to every radio and television station in the world as well as related industries. Personal membership is open to anyone in anyway concerned with radio and/or television broadcasting. Free Exchange Membership is offered to every association and federation in the world, in any way concerned with serving broadcasting interests.

Purpose: The IBS draws attention to the wide variety of opportunities and services rendered by the specialized federations and associations. It encourages professional self-awareness and continuing self-improvement in the use of radio and television media. Under no circumstances does the Society duplicate the services of other organizations.

Governing Body: The IBS is governed by a Board of Directors elected by the General Assembly which consists of the total membership. The Board of Directors consists of sixteen members, who divide the various responsibilities among itself. The Executive of the Board consists of three members; the President, the Executive Secretary and the Treasurer. The Board of Directors of the Society appoints an Executive Director to administer the day-to-day operation of the IBS. The position of President is temporarily vacant. T. D. R. Thomason is Executive. I Director and Treasurer. Berthe A. Beydals is Executive Secretary. Members of the Board include: O. R. de Baer, Paris, France; Berthe A. Beydals, Bussum, Netherlands; Boris Burkov, Chairman of the Board, Novosti Press Agency, Moscow, USSR; Dr. E. R. Bertermann, President, National Religious Broadcasters, St. Louis, Missouri, USA; Stephen A. Cisler, President, Radio WLVL, Louisville, Kentucky, USA; Oleg Feofanov, Editor, Novosti Press Agency, Moscow, USSR; Lic. José Luis Fernandez, former President of A.I.R., Mexico City, Mexico; François Gromaire, O.R.T.F., Paris, France; Prasong Hongsanand, Managing Director, Thai Television, Bangkok, Thailand; Walter A. Keers, E.E.C. Information Office, Bruxelles, Belgium; Dr. Marvin H. Rimerman, Radio & TV Department, C.M.S.C., Warrensburg, Missouri, USA; Mons. José J. Salcedo G., Director-General, Accion Cultural Popular, Bogota, Colombia; Timothy D. R. Thomason, Bussum Netherlands; Lance Tschannen, Swiss Broadcasting Corporation, Bern, Switzerland.

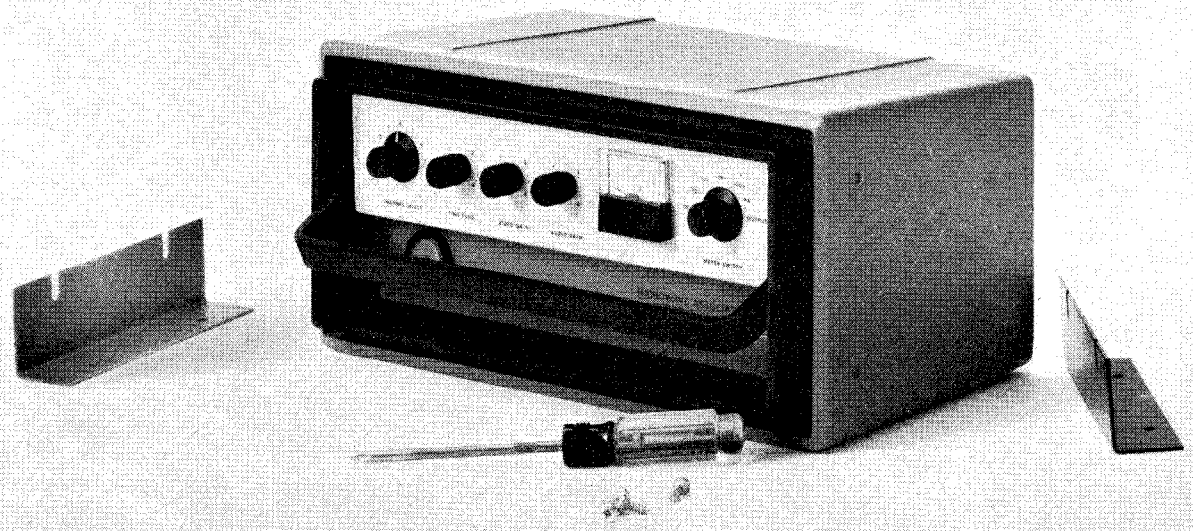
Relations: The Society invites the participation of all persons and organizations concerned with broadcasting everywhere. Further information available upon enquiry to either of the IBS offices.

COMMONWEALTH BROADCASTING CONFERENCE

Members: the national public service broadcasting organizations which are responsible for the planning and presentation of the broadcast programmes of independent Commonwealth countries.
The Sixth Conference, held in Nigeria in September 1965, was attended by the chief executives and others from the following organizations: Australian Broadcasting Commission, British Broadcasting Corporation, Canadian Broadcasting Corporation, Ghana Broadcasting Corporation, Jamaica Broadcasting Corporation, Malawi Broadcasting Corporation, Malta Broadcasting Authority, New Zealand Broadcasting Corporation, Nigerian Broadcasting Corporation, Radio Ceylon, Radio & Television Malaysia, Radio Tanzania, Radio Uganda, Sierra Leone Broadcasting Service and Voice of Kenya.
The Conference, recognizing the urgency of providing adequate programme, engineering and management training to keep pace with the general expansion of radio and television staff and services throughout the Commonwealth, established a Permanent Study Group on Training. The initial members are the Nigerian Broadcasting Corporation (which was host and organizer of the Conference), the Australian Broadcasting Commission, the Canadian Broadcasting Corporation, Radio & Television Malaysia and the British Broadcasting Corporation, which will chair the Group. The Conference further reached agreement in principle that, as a profession, broadcasters should seek an increasing measure of responsibility for recruitment into, and control of appointments within, the profession, wherever tha had n ive been achieved.
The Conference decided on means o fextending the interchange of information and programmes with the object of promoting a greater degree of Commonwealth consciousness and understanding between the member countries; and stressed the importance of true and impartial news reporting based on the unrestricted flow of information, and of the responsible interpretation of events, as means to this end. Among other matters discussed were the contribution of broadcasting to social and educational development, the priorities and techniques of audience research, the disposal of resources for more effective programme planning in the interests of both majority and minority cultural and linguistic audiences, and the place of commercial advertising within a public service broadcasting system. The Conference members agreed to impress upon their national representatives the desirability of supporting strongly any moves to relax copyright laws in favour of developing countries. Papers concerned with the design of radio and television studio and transmitter plant, propagation and frequency problems, technical aspects of programme interchange and experience of the performance of various types of equipment, were considered; and, to sustain and exchange the interchange of technical information, a number of proposals were made to utilize the services of the Conference Secretariat, which has now been permanently established. The Seventh Conference will meet in New Zealand in February 1968.
Secretariat address: Broadcasting House, London W.1., England.

ASOCIACION INTERAMERICANA DE RADIODIFFUSION (AIR)

President: Sr. Lic. Félix Cardona Moreno, Apartado 3955, Caracas, Venezuela.
AIR is an association of the broadcasting corporations of the American countries. Founded in 1946 it represents more than 5000 broadcasting and 400 television stations.



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Put the transmitter and matched receiver on a mountain top — unattended. Give it only 60 watts total power. It becomes one hop of an intercity multi-hop relay link.

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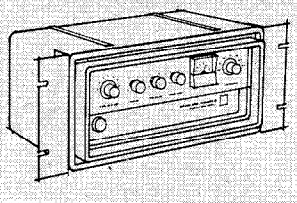
But it's more. In the field, it becomes a high power, portable, lightweight TV pickup relay. It works with 12 or 24 VDC. It can run on a car battery. It has been flown in helicopters, been bounced in golf carts, newswagons, yachts and jeeps. Very wide band video circuitry assures stable top performance in widely varied environments.

Major TV networks and independents in the United States, Europe, and Latin America, as well as the U.S. military, have evaluated it, tested it, and bought it. Write for details.



Model	Band (Mc)	Nominal RF Power	Nominal RCVR Noise Figure without Preamp db	Nominal RCVR Noise Figure with Preamp db	Allocation
MA-2A	1990-2110	2 watts	10	5	TV auxiliary broadcast, STL, remote TV pickup
MA-6A	5925-6875	1 watt	12	5.5	Misc. common carrier, common carrier TV pickup
MA-7A	6875-7125	.75 watt	12	5.5	TV auxiliary broadcast, STL, remote TV pickup
MA-8A	7125-8400	.75 watt	12	5.5	Government, military, TV & wideband data
MA-13A	12,700-13,200	.1 watt	12	6	TV auxiliary broadcast, STL, remote TV pickup

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EUROVISION IN 1965

By J. Treeby Dickinson, Chief Engineer, Technical Centre of the E.B.U.

Although 1965 may have lacked such large-scale operations in Eurovision as the transmission of the Olympic Games, it has, nevertheless, been a year of steady development, both in the extension of the network by the establishment of permanent links with Ireland, Morocco and Portugal, and in the steady growth of its various activities.

Papal visit to the United Nations

A most noteworthy occasion was certainly the Eurovision coverage of the visit of Pope Paul VI to New York on 4th October, 1965. The first phase was the recording of the Pope's departure from Rome at 0530 CET, transmitted through the Italian Earth-station at Fucino and the satellite Early Bird to the United States and distributed in Europe at 1000 CET. Then, from 1415–1830 CET, the pictures of the arrival at New York and procession were transmitted live to Europe by way of the satellite Early Bird and the Raisting Earth-station in Germany, and were distributed to thirteen E.B.U. Members. Next, from 2005–2215 CET, came the journey to the United Nations, the Pope's address to the General Assembly and meeting with the Heads of Delegations, also live by satellite and distributed to twenty E.B.U. Members. In addition, the Mass in the Yankee Stadium was televised and the tape recordings flown to Rome and distributed over the Eurovision Network from there on the following day. Inevitably the technical arrangements for this complex operation were made at short notice. For the arrival and procession the pictures distributed over the United States Networks were relayed to Europe, but the events in the United Nations were covered by a RAI production unit using the permanent equipment of the United Nations Broadcasting Service, this same RAI unit covering also the Mass in the Yankee Stadium, using material placed at its disposal by one of the American Networks. In addition, the RAI undertook, on behalf of the E.B.U., the technical coordination and presentation on the spot of all the coverage intended for Europe.

The Satellite Early Bird

Perhaps the most significant single development in the field of Eurovision during 1965 was the taking-into-service over the North Atlantic of the so-called "stationary" telecommunication satellite HS-303, more widely known as "Early Bird". The possibility of live television transmissions across the Atlantic is, of course, no longer a novelty, thanks to the experimental satellites Telstar and Relay, but they could be used only during the periods of mutual visibility which varied in duration from zero up to about ninety minutes, depending upon the inclination of their orbits relative to the Earth. The particular feature of the satellite Early Bird is that, being in a synchronous orbit, it is continuously visible from the Earth-stations on both sides of the Atlantic and is thus, in theory, available for use at all times.

It should be borne in mind, of course, that this satellite was principally intended to augment the telephone service between Europe and North America, but nevertheless its equipment enables it to be used to provide one television channel in each direction. At the time of writing, the conditions under which the satellite may be used for television are still under discussion, but by virtue of temporary arrangements between the various interested bodies, it has been used for such purposes on numerous occasions. The first of these was on 2nd May, 1965, when a two-way multiple-origin programme was transmitted to mark the introduction of this new telecommunication facility. This programme was rather similar in conception to the very first trans-Atlantic television programme with which the satellite Telstar was inaugurated in 1962, the principal differences being due to the exploitation of the possibility of simultaneous transmission in both directions, which permitted the rapid switching between pictures originating on either side of the Atlantic and also, by using the "split-screen" technique, the simultaneous display of pictures from North America and from Europe. On the following seven Mondays and on certain other days too during the satellite's test period, its facilities were placed at the disposal of television organisations.

Although the transmission of programmes such as the multiple-origin inaugural programme may be one of the more spectacular uses of synchronous satellites, their real value, from the point of view of the television viewer, is more likely to lie in transmitting up-to-the-minute news pictures across the Atlantic. In fact, the inaugural programme itself contained a short news-exchange sequence, and this was followed on the next day by two sequences of news items transmitted from America to Europe. On the last two Mondays in May and the first Monday in June, experimental trans-Atlantic news exchanges were arranged in conjunction with the Eurovision news exchanges, taking place at about 1700 CET on each of the days. In addition to these news exchanges, the satellite was utilised on numerous occasions during May and June for short-notice transmissions of single items of particular topical interest. Since the end of June, however, the utilisation of the satellite for television transmissions has been very restricted, pending the outcome of the negotiations on the financial and other conditions relating to its use, and the extent to which such satellites will be used in the future will depend very much upon these conditions.

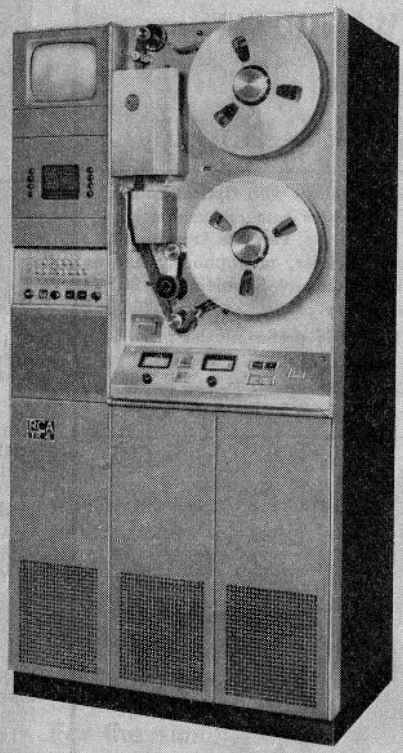
Extension of the Eurovision Network

In addition to the possibilities offered by the Early Bird satellite of extending the Eurovision Network across the Atlantic, 1965 has also seen its extension, on a permanent basis, to the two remaining "unconnected" countries in Western Europe, namely Ireland and Portugal. On 23rd June, 1965, a permanent two-way vision link was taken into service between Mohercrom, a radio-relay station on the national network of Telefís Eireann, and the B.B.C. transmitting station at Divis in Northern Ireland. Circuits already existing enable the new international junction to be extended to Dublin and to Belfast, the connection to the rest of the Eurovision Network being made through the United Kingdom. The availability of this permanent link enables Telefís Eireann to participate as a full member of Eurovision, its previous participation having been

Continued page 32

RCA NEW LOOK

Compact TV Tape Recorder



This budget-priced, quadruplex Recorder accepts high band, color, and electronic splicing accessories

This total performance compact does just about everything the deluxe model does. Complete in a 33 by 22 by 66 inch cabinet, the transistorized TR-4 is the answer for installations where low initial cost and broadcast quality pictures are indicated. A complete recording and playback package, it has suitable monitoring facilities, built-in picture and waveform monitors, and other provisions to meter key circuits for proper setup.

Like other RCA transistorized TV tape equipment, new circuit techniques, needed for high band, are accommodated by the TR-4. With such circuits, (available as optional extras) high band can be selected as a second mode of operation, with all its benefits, including color and monochrome tapes of particularly high quality, and multiple generation video dubs.

Features now standard on the TR-4, as on all RCA TV tape equipment, include air-lubricated tape guides, magnetic tone wheel, solid state control system, built-in switchlock and two-speed operation. Accessories available include Pixlock, automatic timing control, cue record and playback and electronic splicing. The TR-4 is the only recorder of its kind that's adaptable to color operation. And standardized modules in this and other RCA TV Tape Recorders assure high quality, easy maintenance, and simplicity in adding accessories.

For full particulars, write to Radio Corporation of America, Bureau de Controle, 118 Rue du Rhone, Geneva, Switzerland; or RCA International Division, Dept. 200A, Central and Terminal Avenues, Clark, New Jersey, U.S.A.

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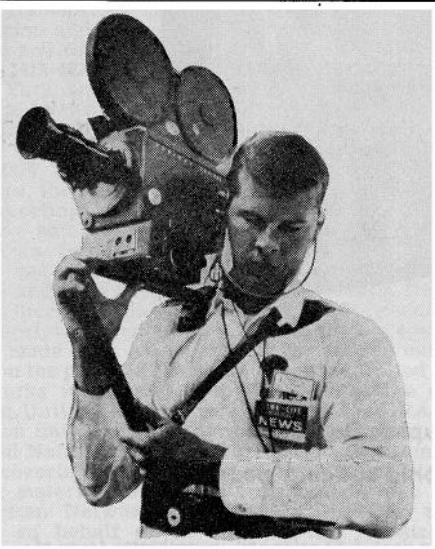

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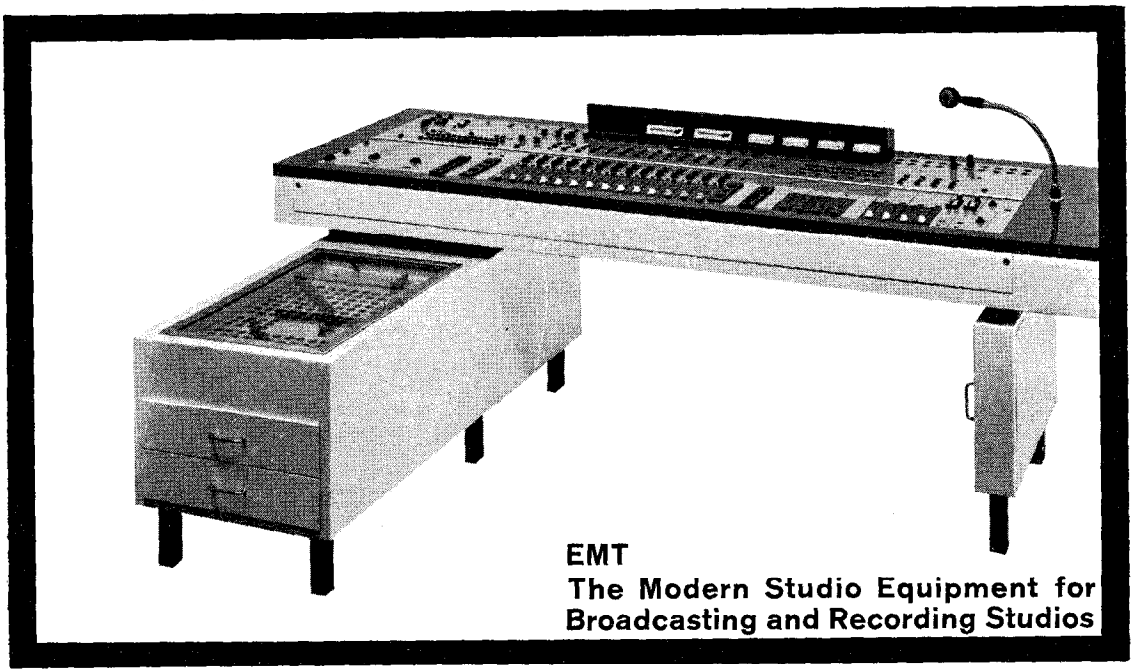
limited to the occasional reception and rebroadcasting of Eurovision programmes broadcast in the United Kingdom and the contribution of a few items by way of a temporary link specially set up between Mohercrom and Divis on each occasion.

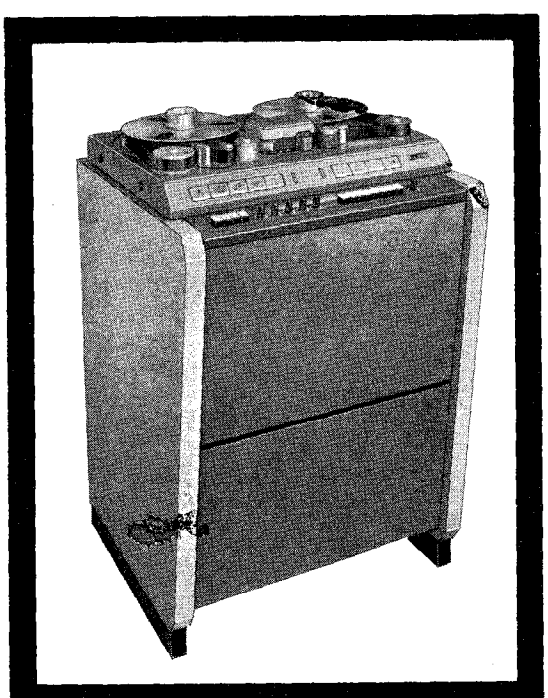
A further extension of the network was accomplished on 3rd July, 1965, when a single reversible link was taken into service between Lujar, near Granada, in Spain, and Cap Spartel, near Tangier, thereby providing the physical facilities necessary for the Radiodiffusion-Télévision Marocaine to become a member of Eurovision. This circuit is the second vision junction to be established between Europe and the African continent, the first, a tropospheric-scatter link between France and Algeria, having been set up originally by the Radiodiffusion-Télévision Française in 1960. This latter circuit has recently been taken into use again, but it cannot now be described as constituting a part of the Eurovision Network as such, since the Radiodiffusion-Télévision Algérienne is not a Member of the E.B.U.

Until recently, the position of Portugal was very similar to that of Ireland. The Radiotelevisaõ Portuguesa could receive and rebroadcast Eurovision programmes transmitted from the Spanish television stations, and on one occasion, in May, 1963, a temporary link was specially set up between Lisbon and Guadalcanal in Spain, to provide for the transmission of a programme originating in Lisbon. However, towards the end of 1965, a permanent international junction was taken into service between Mendro in Portugal and Guadalcanal. Moreover, the Television Española has recently duplicated the reversible vision circuits between Guadalcanal, Madrid and Barcelona, which will make it possible, outside the periods when the Spanish Second Television Programme is being broadcast, to transit across Spain programmes in which the T.V.E. does not participate.

The permanently leased network of programme-sound and communication circuits, which constitutes Stage 1 of the Eurovision Permanent Network Scheme, has continued to prove itself of great value. This network was extended at the beginning of 1965 by the provision of communication circuits between Stockholm and København, which point

Continued page 48





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RADIO BROADCAST RECEPTION CONDITIONS EXPECTED DURING 1966

By George Jacobs, Chief, Frequency Division, Voice of America, Washington, D. C. 20547

Broadcasting stations are assigned specified bands for operation, as follows:

LONG WAVE (Low Frequency)		MEDIUM WAVE (Medium Frequency)	
Kilocycles	Meters	Kilocycles	Meters
150–285	1053–2000	525–1605	187–571

SHORT WAVE
Tropical Broadcasting Bands

Kcs.	Megacycle Band	Meter Band
2300–2495	2	120
3200–3400	3	90
4750–5060	4	60

HIGH FREQUENCY BROADCASTING BANDS

Kcs.	Megacycle Band	Meter Band
3900– 4000	3,9	75
5950– 6200	6	49
7100– 7300	7	41
9500– 9775	9	31
11700–11975	11	25
15100–15450	15	19
17700–17900	17	16
21450–21750	21	13
25600–26100	25	11

Some broadcasting stations operate outside of the assigned bands, mainly near the edges of these bands.

The Long Wave Band (used in Europe) and the Medium Wave Band (used worldwide) are used mainly for domestic broadcasting, but are used also for some international broadcasting to adjacent countries. Although long and m.w. stations are normally heard only for moderate distances, long-distant reception is possible over dark transmission paths, mainly during the fall, winter and spring months in the reception area.

The Tropical Broadcasting Bands are assigned for use for domestic broadcasting in tropical areas, where high atmospheric noise levels limit the service area of medium wave stations. DX reception on these bands is best when the transmission path between the transmitter and receiver is all or mostly in darkness. These bands are used mainly by stations in Latin America, Africa, South and South-east Asia, and Oceania.

The High Frequency Broadcasting Bands, between 3.9 and 26.1 megacycles, are used for both international and domestic broadcasting. These bands are allocated for worldwide use, except that the 3.9 and 7 mc. bands are not allocated for broadcasting in the American area. Also, the 3.90 to 3.95 mc. portion of the 75 meter bands is used only in Asia and Oceania.

Reception conditions on these bands vary according to the time of day and season of the year. Most of the international broadcasting stations make seasonal changes in frequency usage, mainly on the first Sunday of March, May, September and November. In addition, frequency and time changes are made at other times during the year, due to interference, change of program times, addition of new transmitters etc. A large percentage of the domestic broadcasting stations operating in the high frequency bands do not make seasonal frequency changes, but some, particularly the stations in India, Pakistan, USSR and South Africa do make seasonal shifts.

Short-wave, and long-distance medium-wave and long-wave broadcast reception is possible only because of the existence of an electrified region high in the earth's upper atmosphere. This region, electrified by nature, is called the **ionosphere.** It is the ionosphere, acting somewhat like a mirror, that reflects radio signals over great distances.

The ionosphere is believed to be caused, at least in part, by ultraviolet radiation given off by the sun. The amount of radiation illuminating the ionosphere varies hourly, seasonally and geographically, depending upon the relationship between the sun and the earth. In addition, year-to-year changes, over an approximate 11-year cycle, occur in the ionosphere's capability to reflect radio waves. For reasons not yet fully understood by scientists, these changes appear to result from the difference in the number of sunspots appearing on the face of the sun. When the sun's surface is covered with a great number of spots, the ionosphere is electrically strong and long-distance radio reception is often at its best; when the number of sunspots diminish, reception becomes poorer. During 1957-61, when the sunspot cycle was at or near its maximum, reception conditions were at their best. During the past three years, there have been few sunspots on the face of the sun, and reception conditions have been considerably poorer.

It now appears certain that a new sunspot cycle has begun, and the number of sunspots on the surface of the sun are on the increase again! According to solar observations made with powerful telescopes at the Zurich Solar Observatory, the previous cycle, which began during April, 1954, appears to have ended during November, 1964 with a sunspot count of 10. Since then, sunspots have been increasing, but very slowly. It is estimated that 1965 began with a sunspot count of 12, and by the end of the year it had risen to approximately 25. While the sunspot count is still low, the important thing is that it is on the increase. Sunspot activity during 1966 is forecast to range between approximately 25 and at least 50. This should result in a noticeable improvement in short-wave reception conditions, especially in the 11, 13, 16, 19 and 25 meter bands.

The following is a general summary of reception conditions expected on each short-wave broadcasting band during 1966.

25 mc. band (11 meters)

As the sunspot cycle rises, more and more use will be made of this band for long-distance broadcasting. During 1966, a few stations are expected to use the 11-meter band, and it should be possible to receive them over distances of many thousands of miles for short periods of time during the daylight hours. Reception is likely to be best in this band during the late fall, winter and early spring months, with signals stronger on north-

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Radio Broadcast Reception Conditions

(Continued from page 34)

south paths than on those from the east and west. Reception is also expected to be considerably better in southern and tropical regions than in more northerly areas.

21 mc. band (13 meters)
Considerably more broadcasting stations are expected to be heard in this band during 1966 than during the previous two or three years. Reception of exceptionally strong signals over distances of many thousands of miles, from almost all areas of the world should be possible during the daylight hours of the fall, winter and spring months. Some long-distance reception, especially from stations in southern and tropical regions is also expected during the daylight and early evening hours of the summer months.

17 mc. band (16 meters)
Excellent long-distance reception of stations from all areas of the world should be possible in this band during the daylight hours throughout the entire year. During the late spring and summer months, strong signals should also be heard during the early evening hours as well.

15 mc. band (19 meters)
Propagation conditions in this band are expected to be excellent for the reception of both long-distance stations many thousands of miles away and stations from medium distances of a thousand miles, or so. The band is expected to be full of stations with exceptionally strong signals from shortly after sunrise, through the daylight hours and into the early evening. During the summer months, excellent reception may often be possible during the nighttime hours as well. Exceptionally longdistance reception is more likely to occur for a short period after sunrise, and again during the late afternoon and early evening hours. Medium-distance reception should be best during the late morning and afternoon hours.

11 mc. band (25 meters)
This is expected to be an excellent band for medium-distance reception during the hours of daylight. During this period, at any season of the year, exceptionally strong signals should be received from station that are between approximately 750 and 2200 miles away (1250 and 3750 km.). Long-distance reception, from stations several thousand miles away, should be possible for a short period after sunrise, and again during the late afternoon and early evening hours. During the summer months, long-distance reception also should be possible during the hours of darkness.

9 mc. band (31 meters)
This band is expected to be excellent for daytime reception over short-to-medium distances on the order of 500 to 1500 miles (850 to 2500 km.). Fairly good long-distance reception, over many thousands of miles, should be possible throughout the year during the early evening hours, through the hours of darkness and until shortly after sunrise.

7 and 6 mc. bands (41 and 49 meters)
Excellent short-range reception is expected on these bands during the daylight hours for distances up to approximately 1000 miles (1750 km.). During the fall, winter and early spring months, when local atmospheric noise levels are at their lowest values, fairly good medium and long-distance reception should be possible from shortly before sunset, through the hours of darkness and until shortly after sunrise. High static levels are expected to make long-distance reception somewhat difficult during the late spring and summer months.

4, 3, and 2 mc. bands (60, 90, and 120 meters)
These bands are mainly used for short-distance reception. During the hours of daylight, stations within a radius of a few hundred miles should be heard well. After sunset, and throughout the hours of darkness, the reception range increases, and during the late fall, winter and early spring months, good reception also should be possible of medium-distant stations within a radius of one or two thousand miles. During the summer months, high static levels are likely to limit reception in these bands to short-distances.

For more specific reception information, please refer to the Table of The Most Suitable Meter Bands for 1966 (page 76).

A MESSAGE FROM THE EDITOR

This is the twentieth edition of the World Radio Television Handbook in which we have attached importance to giving as complete and practical information as possible to short wave listeners in order to make it easier and quicker for them to pick up the broadcasts of the various countries and to identify the stations.

We have three wishes to advance: the one is to help us by making WRTH as well-known as possible in all circles interested in radio and television in general and in *short wave listening in particular;* the other is to receive your criticism and wishes in regard to the contents of the 1966 edition.

To radio and television stations we direct an earnest appeal to send us *regularly* all corrections and particulars of extensions, which will then be passed on for the benefit of listeners all over the world.

Thanks are due to all those who have assisted in various ways in the preparation of this anniversary edition - to all broadcasting and television organisations irrespective of politics, race or religion - to radio clubs and contributors in many countries all over the world, and to our many faithful advertisers.

J. M. FROST

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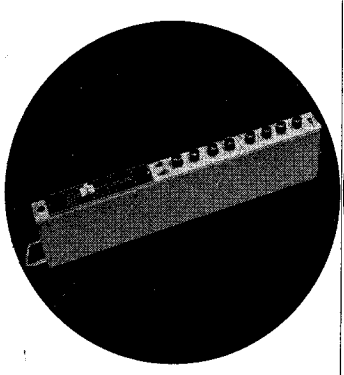

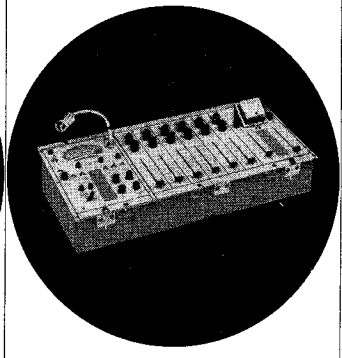

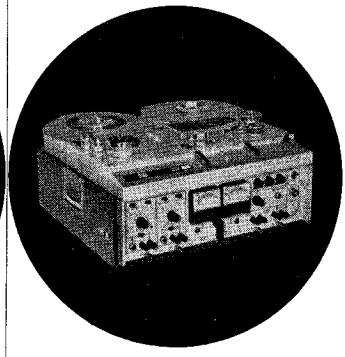

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INTERVISION IN 1965

By Aleš Suchý, Head of the Intervision Programme Coordination Centre.

The expansion of the membership of Intervision has continued also in 1965 when television organizations of the Republic of Finland, the Byelorussian SSR, and the Latvian SSR joined this organization, the total number of its members thus attaining thirteen (the Czechoslovak Socialist Republic, the German Democratic Republic, the Polish People's Republic, the Hungarian People's Republic, the Rumanian Socialist Republic, the People's Republic of Bulgaria, the USSR, the Estonian SSR, the Ukrainian SSR, the Lithuanian SSR and the three above mentioned organizations).

This expansion will undoubtedly affect the total number of broadcasts exchanged among the individual member organizations and, on the other hand, it increases the responsibility of technical services, as the extent of the Intervision network has achieved an unprecedented size.

The fact that already today Intervision members exchange mutually a remarkable number of various television broadcasts is witnessed, for instance, by the statistical review of the period between May 17th – August 15th, 1965. Within this period of time 182 broadcasts were relayed, of which 60 sports relays, 40 topical-political broadcasts, 30 reportages, 23 concerts, operas and ballets, 16 shows, 11 broadcasts for children and youth and 2 cultural programmes.

The development of the Intervision network is testified to also by the appearance of new towns from where the Intervision programmes are relayed such as Riga, Gorki, Kazanj, Lvov, etc. In this connection it is necessary to mention the Soviet television satellite with whose effective help Intervision viewers can follow programmes from as far as the Pacific coast, the harbour of Vladivostok and other Far Eastern towns.

In comparing the statistical reviews for the last years our attention is immediately drawn to the ever increasing number of topical-political programmes. From the point of view of technical organization this tendency has been reflected in the fact that Intervision started a regular exchange of TV topical items four times a week (Tuesday, Wednesday, Thursday, and Friday), very important items being possible to be relayed also on other days than mentioned.

Cooperation in this field is being extended also with Eurovision and mutual exchange of topical TV items has been already started.

However, the cooperation with Eurovision does not cover only this field of television work, but concerns a whole range of sports broadcasts, shows, cultural broadcasts, and reportages, as shown in the below-published table concerning the mutual exchange of broadcasts between Intervision and Eurovision in the time from April 1st – June 30th, 1965.

Numbers of Eurovision broadcasts relayed over the Intervision network:

	BBC	DR	ITV	JRT	ORF	RAI	RTB	SRT	SSR	TVE	YLE	ABS Satel.	Total
Number	1	1	1	12	2	2	1	2	1	1	2	10	36
Duration	110	46	106	882	227	187	57	222	25	42	75	458	2437
Cultural	–	1	–	–	–	–	–	–	–	–	–	–	1
Topical	–	–	–	1	–	–	–	–	–	–	–	10	11
Sports	1	–	1	6	2	1	1	2	–	1	2	–	17
Entertaining	–	–	–	5	–	1	–	–	1	–	–	–	7

Number of Intervision broadcasts received by the individual Eurovision participants:

Receiving org.	ARD	BBC	BRT	DR	JRT	NRK	NTS	ORF	ORTF	RAI	RE	RTB	SRG	SRT	SSR	TSI	TVE	YLE	ZDF	ABC	NBC	CBS
Number of transmissions	19	10	19	20	25	14	13	15	14	18	2	16	20	20	5	4	2	20	21	7	3	3

Intervision has recently intensified its work in the field of various international festivals organized in its member countries such as the Prague television festival, the E. E. Kisch International TV competition held in Leipzig, the festival of popular songs of Baltic countries relayed from Rostock in the German Democratic Republic, the international song festival held in Sopoty in the Polish People's Republic, the festival of historical plays at the castle of Sziklos in the Hungarian People's Republic, the "Golden Clef" song festival in Prague, etc. The new festival of television films on the work and life of fishermen, organized in Riga will undoubtedly soon attract the attention of the public.

Great attention is at present devoted to long-term planning of the individual broadcasts. Viewers rightly request high quality programmes both in the field of art and sports. Therefore we meet so often the names of world-known artists and ensembles who have acquired an international reputation on the screens of TV viewers. The artists consider it a special honour to appear in the Intervision network.

In the field of sports programmes all top competitions are relayed. It must be, however, said that their number could be further increased if it were not for sometimes exaggerated financial requirements of some international sports federations which in this way render impossible the relays of some events, awaited with extraordinary interest by widest masses of people.

I think that it can be said in general that the five-year existence of Intervision has fully proved the necessity of establishment of this international organization which is, as testified by the daily life, needed by national television organizations, using it as their effective assistant in the mutual programme exchange.

SUMMER SUPPLEMENT 1966

With this up-to-date guide, you can have as much pleasure monitoring shortwave during the summer as you do the other seasons of the year. Many broadcasting stations revise their schedules for that period. The 1966 Summer Supplement – issued in June 1966 – will contain hundreds of changes in time schedules and programming and will bring your World Radio Television Handbook 66 right up to the minute including the summer schedules of the major broadcasting and shortwave stations. So there is no need to give up your hobby during that time. You can still monitor the many important stations around the world which are usually received with good volume at certain times of the day throughout the summer and autumn season.

There are approximately 80 pages of program details on thousands of stations and in addition you receive a complete up-to-date table of shortwave stations in the world. To make sure of getting your copy, we cuggest that you send us your order as early as possible. Price: US $ 1.80, £ 0/12/0, DM 7.20, D. Kr. 12.25 per copy, plus postage $ 0.25, £ 0/1/9, D. Kr. 1.50 per copy.

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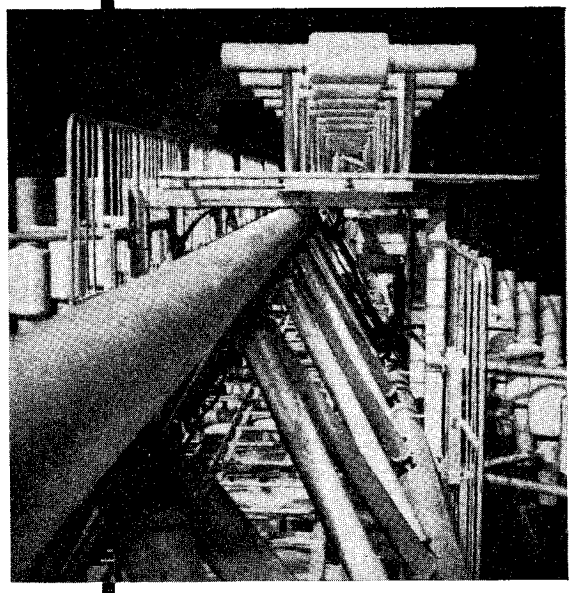

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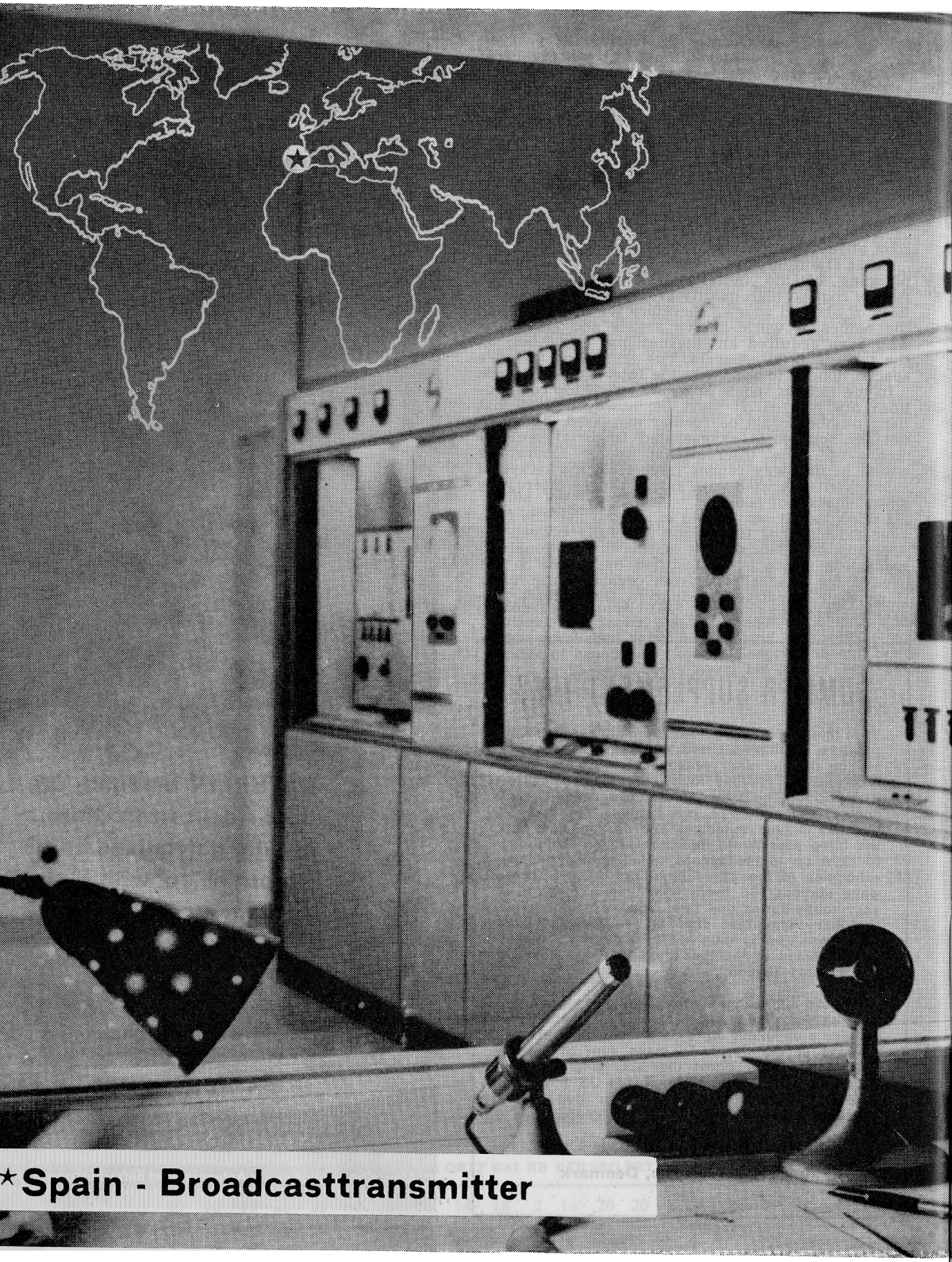

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- Philips equipment covers the complete range from microphone to broadcast transmitter, from TV camera to aerial, from line amplifier to radio link.

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microphones amplifiers equalizers control desks transcription turntables signalling lights tape recorders camera chains: image orthicon vidicon telecine programme mixers lighting	sound broadcasting: MW AM: 5 - 300 kW SW AM: 5 - 300 kW VHF FM: 10 W - 12kW	TV broadcasting: Band I: 75 W - 25 kW Band III: 75 W - 10 kW Band IV and V: 2 - 20 kW	UHF radio links VHF radio links aerials feeders towers dummy aerials power supplies

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COLOUR-TELEVISION STANDARDS FOR EUROPE

by Georges Hansen

Director of the Technical Centre of the European Broadcasting Union

Vice-Chairman of C. C. I. R. Study Group XI (Television).

At the end of 1964, in my article for the 1965 World Radio and Television Handbook, I expressed the hope that it would be possible to agree on a common colour-television system for all the countries of Europe at the time of the C.C.I.R. Study Group XI meeting in Vienna. I also wrote that it would probably be the last opportunity to reach a European agreement, as some countries such as the United Kingdom and the Federal Republic of Germany intended to start a regular colour-television service in 1967 and had therefore to take a decision on the system during 1965. Now the C.C.I.R. Study Group XI meeting has taken place, in Vienna, from 24th March to 7th April, 1965 and no agreement was reached. Indeed, the division was greater than ever and the proponents of the SECAM, PAL and NTSC systems held to their positions. The element of surprise (which came in fact just before the meeting opened) was the Franco-Russian agreement on SECAM. All the "O.I.R.T countries" expressed their preference for a system "based on SECAM".

Does this mean that one should abandon all hope of having a common colour-television system for all the countries of Europe? Not entirely. Some countries still wish to start a regular colour-television service in 1967 and will have to take at least a provisional decision on the standards by the end of 1965 or very early in 1966 at the latest. But they might try to invest mostly in equipment which is independent of the choice of the system and might be willing to change their decision about the system if a common agreement can be reached at the time of the Plenary meeting of the C.C.I.R. in Oslo from 22nd June to 22nd July, 1966. But let us face the facts: the possibility of an agreement is very slight —there is only a faint ray of hope.

And yet it would be a great misfortune for Europe —and a long-lasting one—if two or possibly three systems were adopted; a few experts, amongst whom I was, expressed their concern at the Vienna meeting of C.C.I.R. Study Group XI about the difficulties which would arise for the exchange of programmes both by tape and by radio-links, and also for the receivers in the border regions between countries having adopted different systems.

What is the situation now and what is being done?

For the non-specialist, let us recall that the NTSC, SECAM and PAL systems have much in common and that the significant difference between them lies essentially in the methods of modulating the colour sub-carrier for the transmission of the chrominance information. In the NTSC system quadrature modulation with suppressed carrier is used. In the SECAM system, the colour-difference signals are transmitted successively, line by line, by frequency modulating the sub-carrier. The PAL system is analogous to the NTSC except that there is a periodical alternation, from one line to the next, of the phase of one of the modulation components. A complete description of the systems, their detailed specifications and their relative advantages and disadvantages are given in the Report of the E.B.U. Ad-hoc Group on Colour Television, 2nd Edition, February, 1965*. The results of the discussions of C.C.I.R. Study Group XI appear in documents N° XI/116 and XI/117 of the Vienna meeting.

The E.B.U. Ad-hoc Group on Colour Television which is composed, let us recall, of specialists from Western Europe belonging to Broadcasting Organisations, Telecommunication Administrations and radio manufacturers, is carrying on its work notably by studying the consequences of the possible adoption of more than one system in Europe: effects of single and consecutive transcodings, practical difficulties in the exchange of programmes over radio-links or by tape recordings, complexity and cost of receivers in the border regions, etc. The Group has succeeded in defining precisely the specifications of the PAL system to be considered, as well as those of the decoding system to be used. In France, work undertaken by the Compagnie Française de Télévision (C.F.T.) and by the O.R.T.F. has led to improvements of the SECAM system obtained by the optimisation of parameters. A new variant, known as SECAM III A, is claimed to give better results as far as noise immunity and chroma transient response are concerned.

Work is going on also, no doubt, in the Eastern European countries. A new colour-television has been tested in the U.S.S.R.; as far as we know, the chrominance vector with phase α is transmitted during one line and the same vector with phase 0 during the succeeding line (quadrature modulation with suppressed carrier being used). A delayline is used at the receiver which is claimed to be very simple.

This, then, is the situation at the time of writing this article. Perhaps one should remember at this juncture the famous saying of William of Orange. "Il n'est pas nécessaire d'espérer pour entreprendre, ni de réussir pour persévérer".

* A limited number of copies, in French and in English, are still available.

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RADIO AND TELEVISION IN THE SERVICE OF INFORMATION AND EDUCATION IN DEVELOPING COUNTRIES

by Dr. Henry R. Cassirer, Chief, Educational Use of Mass Media, Department of Mass Communication, UNESCO.

The past 20 years have brought about many fundamental changes in the nature and importance of broadcasting in the modern world, not the least significant of which is its growing application to meet the urgent civic, social and educational needs of developing countries. The emergence of these countries to independence, their need to promote national unity, social transformation and the education of their people, are leading them to see Radio and Television broadcasting in an entirely new light: as essential forces in the political, social, cultural and educational revolution they are undergoing.

Radio broadcasting is the primary tool of mass communication in developing areas. It crosses deserts and swamps, mountains and forests. It is the cheapest in production and can be of relatively low cost in reception. Thanks to the transistor, it may be heard in areas without electricity, nor does it require roads or other means of transport to reach its audience. It appeals to the literate and illiterate with equal force. It is flexible in content and fast in transmission.

Yet it has serious limitations compared to other media of communication. It lacks the permanency and explicitness of the printed word. It appeals only to the sense of hearing. It cannot match the impact of the static photograph or wall poster, or of the moving film and television. It is thus limited in lasting impact and as a tool of systematic instruction.

Television may at first seem characterized more by its obstacles to the introduction in developing countries than by its opportunities to serve them. It is high in cost of installation, production and reception. Its programmes require elaborate resources of visual presentation and professional talent. Its range of transmission is limited. Reception requires supply of electricity. Maintenance of equipment for production and reception calls for relatively high technical skills.

Nevertheless, television is penetrating all corners of the world at a surprising speed. In Africa, it has now been introduced in some twenty countries, hardly any of the Latin American countries are without their television stations, and it is making also rapid progress in the countries of Asia. Frequently, TV reception is limited to urban areas, and the bulk of the population is not yet reached by it. But here, too, important changes are occurring, receivers are being designed for non-electrified areas, and community reception, or teleclubs, give access to the poorer masses who could never afford a home set. TV has proved so powerful in impact, so effective for the communication of information and education, so commercially attractive, so significant for national prestige, that its march around the globe exceed all predictions.

If Radio appears to be most suitable for mass communication to all sections of the population, television may turn out to be the most effective medium of communication for intensive appeal to more restricted audiences.

Yet the actual spread of broadcasting in developing countries is far behind their needs and potential. That is why UNESCO is assisting its Member States in the planned development of broadcasting facilities, and in the training of personnel. UNESCO is also keenly interested to promote the production and dissemination of lowcost radio receivers. The task is to assure their large-scale production and marketing, a matter which UNESCO is exploring in cooperation with the Regional Economic Commissions of the United Nations, and with individual Member States and their manufacturers.

The first need is for countries to have a conscious, planned policy in the field of broadcasting which links this tool of mass communication to the broader objectives of economic and educational planning. Only such consideration of the overall significance of broadcasting, a consideration which will affect the administrative structure of broadcasting, the nature and extent of technical installations, as well as programme policy, can assure that Radio and Television serve the best interests of the country. Advisory missions of this type therefore constitute one of the contributions of Unesco to the purposeful development of broadcasting.

Training is a further bottleneck to which UNESCO pays particular attention. Such training may be undertaken through ad-hoc training courses, staffed by national and foreign experts and organized at individual broadcasting stations, through permanent training institutions of a national or regional character, such as UNESCO is currently envisaging to set up in cooperation with the Government of Nigeria, and through fellowship programmes for training in other countries. A combination of all these methods will normally lead to best results. We may identify three distinct areas of training: general professional training of programme and technical personnel which qualifies them for all-round work in broadcasting organizations; specialized training in broadcast journalism and educational programming which prepares programme staff for the specific tasks outlined in this article; and training in utilization.

To familiarize educators and dynamic citizens with the most effective methods of utilizing such programmes, has become a vital necessity for every developing nation. Such training must be inspired by awareness of the particular functions which Radio and Television may fulfil in the fields of information and education.

In the field of information, news broadcasting comes first. News of national, local and world events links continuously the individual and the society of which he is a part. The leaders of government, of science and of culture find broadcasting particularly effective as a channel of communication with the mass of the people. Here television proves even more effective than Radio, for no image is more "visual" than the outstanding human per-

Continued page 46

v.i.t. displays with TEKTRONIX video-waveform monitor

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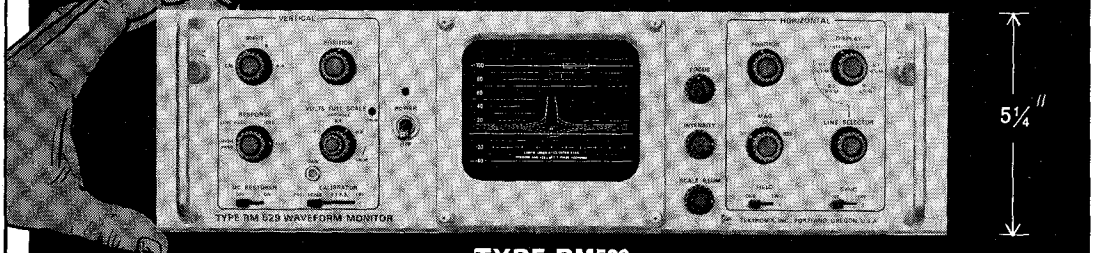

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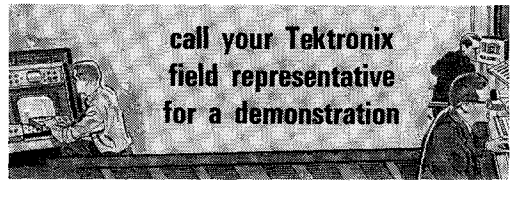

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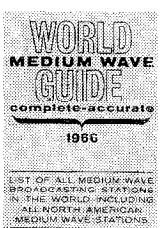

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MORE INFORMATION on page 66

sonality. When Radio, and even more TV, are present at public events, at contests in sports or the arts, at ceremonies or manifestations, they convey a sense of participation which serves to weld the nation and to create the climate for emulation.

Beyond the transmission of factual information, broadcasting fulfils an important informational function through the documentary, the dramatic or composite presentation of a problem or a situation in its depth and context. It is here that broadcasting seeks to penetrate beyond the daily, the obvious and the apparent, in order to convey a more basic and vivid understanding required for decision-making and intelligent citizenship. The purpose of the documentary is thus not merely informational but motivational. It is to create the emotional climate, the intellectual stimulus for awareness and action.

Particularly in a developing society, information has always educational undertones, while education will be filled with content of a new information. But their objectives are different. Information stresses the transmission of content. Education implies purposeful growth of the individual and the group, more or less systematic acquisition of knowledge, and preparation for action, whether within the context of an educational curriculum or in the adult community.

In adult education, broadcasting seeks to stimulate knowledge and activity in such fields as agriculture, health, or citizenship. But here the broadcast medium must be linked with inter-personal communication, for man will assimilate into his own life only what has been endorsed by those whom he traditionally respects in family or village. Discussion of broadcasts in radio farm forums or teleclubs is thus an essential part of the utilization of these media for educational purposes. Such discussions are particularly effective if provision is made for feed-back of questions and reactions from audience groups to broadcast stations.

As long as 700 million people in the world are illiterate, man will remain enslaved by ignorance. The first task is to bring an increasing number of children into schools which are adequately staffed, equipped and housed. The second task, to be undertaken concurrently, is to educate adults in ways of improving their livelihood, of increasing their knowledge, and of participating actively in a progressive society.

Here broadcasting can make one of its most significant contributions, for it does not require literacy to be understood, while it constitutes at the same time a motivating force toward literacy through the curiosity it arouses and the stimulation it provides to reception groups. Moreover, television may also serve as a direct tool of literacy instruction.

The inter-personal link is equally important in all efforts to use broadcasting for instruction. Whether it be in the teaching of modern languages or of literacy, in agricultural instruction or domestic management courses, the presence of a teacher or monitor on the reception end, who is able to complement the broadcast message, adds immeasurably to the effectiveness of such impersonal but widespread teaching. The one-way communication channel of broadcasting has its educational limitations; but the hunger for education and the dearth of resources make it nevertheless a valuable tool of the educator if it is properly used.

In the education of children, broadcasting can fulfil a particularly effective role in the training of

Continued page 48

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SOLAR ACTIVITY IN 1966

by Prof. Dr. M. Waldmeier, Zürich

Prof. Dr. M. Waldmeier

After the succesful completion of the International Geophysical Year (IGY) 1957/58 it turned out that for many disciplines, especially for the ionospheric researches a period of comparison at a time of low solar activity is needed. As the IGY coincided with a maximum of solar activity, it was decided to have the comparison-period around the coming solar minimum. When in 1960 the date of this period had to be fixed, the solar experts were unable to predict whether the sunspot minimum had to be expected for 1964 or for 1965. Therefore the comparison-period, now known as the International Quiet Sun Year (IQSY) was arranged to comprise both years, 1964 as well as 1965. Now as IQSY comes to its end we may state that the period was well chosen. This can be seen from the run of the monthly Sunspot Relative-Numbers:

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1964	15.3	17.7	16.5	8.6	9.5	9.1	3.1	9.3	4.7	6.1	7.4	15.1
1965	18.5	14.3	11.3	6.8	26.4	15.5	11.9	8.6	16.3			

The lowest observed values occurred in July and September 1964. When smoothing out the month by month fluctuations one gets a broad minimum extending at a value of 10 from June to November. Therefore September may be regarded as the time of the sunspot minimum. Actually the lowest smoothed relative-number, 9.7, was found in October 1964. To fix definitively the time of the minimum we have to await for the end of 1965.

After the prolonged minimum the solar activity was significantly increasing again from December 1964. At the beginning of the new cycle increase is at a low rate but will be larger in the years to come. It is to be expected that the smoothed sunspot numbers will rise from about 20 at the beginning to about 50 at the end of 1966. Therefore, the yearly mean will be about 35, very close to the corresponding value for 1962 (38). This means that the electron concentration in the ionosphere, the critical frequencies, and the conditions in high frequency radio communications will be the same as in 1962. As far as disturbances are concerned, 1966 may be strikingly different from 1962. The year 1966 on the ascending branch of the solar curve will produce more sudden ionospheric disturbances, but less ionospheric storms than the year 1962 on the descending branch.

As in the past years, the daily relative-numbers for the expired month as well as predictions for the coming six months are emitted by the Swiss Shortwave Service. The present emission time-table valid till May 1st, 1966 is as follows:

Times GMT[1])	kc	Destination
*07.55	9670/11865	Japan, China
*09.40	11865/15305/ 17820/21520	Australia/NZ/So. Ea. Asia
*12.40	9665/11865	British Isles
*14.25	11865/15305	India/Pakistan
*14.25	17845/21520	Africa
*16.10	9655/9665/11865	Near & Middle East
*16.10	11715	No. America (West)
*19.55	9595/11810/15305	Africa
*21.40	7220/9665	Spain
**00.55	9535/9655/11810	So. America
**02.10	6080/6120/9535	No. America (East)
**03.55	6120/9535/9655	Ce. America
**05.10	6120	No. America (West)
**11.25	9665/11865	Spain

1) **Dates of Emission:**
***Sat:** 1965 Dec. 4th, 1966 jan. 8th, Feb. 5th, March 5th, April 9th - ****Sun:** 1965 Dec. 5th, 1966 Jan. 9th, Feb. 6th, March 6th, April 10th.

Where to obtain the WRTH: see page 303

EUROVISION IN 1966

(continued from page 32)

was already linked to the E.B.U.'s Coordination Centre in Bruxelles, and between Bruxelles and Wiesbaden, the operational headquarters of the Zweites Deutsches Fernsehen. Stage 2 of the scheme, corresponding to the permanent leasing of a network of vision circuits, is, however, still in the discussion stage. Negotiations are in progress regarding the conditions for the long-term lease of the vision circuits from the Administrations, and the E.B.U. has recently begun a study of methods of remotely switching and supervising such a network, as well as a traffic study to facilitate the choice of the most advantageous configuration for the network.

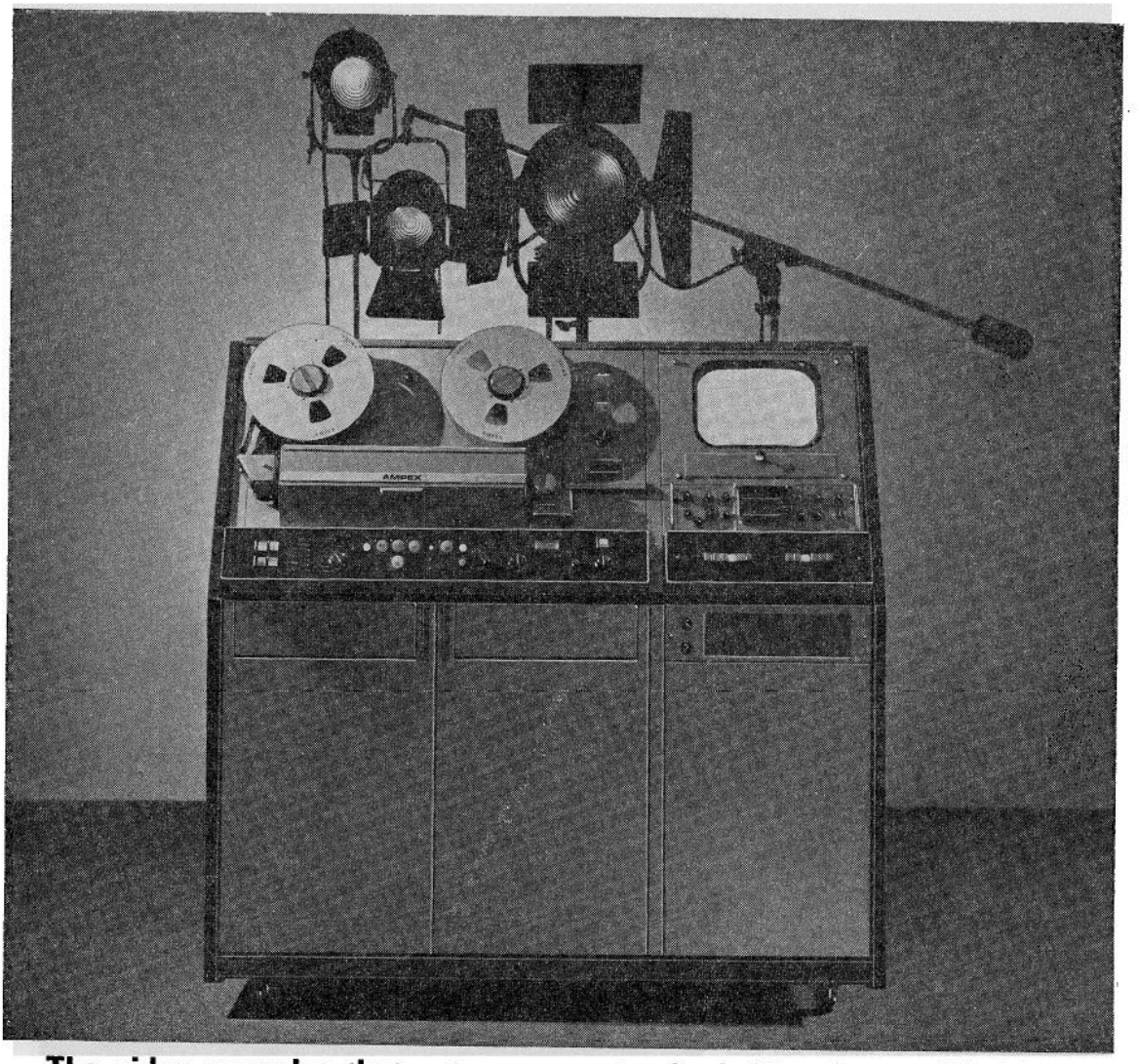
Radio & Television in the developing countries

(continued from page 46)

teachers in service. The undertrained, isolated teacher is present in rural and urban communities of all developing countries.

Addressing itself directly to pupils in the classroom, Radio and Television come to supplement the work of the teacher, to introduce the aural illustration of music and sound or the visual documentation normally absent in class. The degree to which such school broadcasts take over the teaching load will depend upon the qualifications of teachers, their skills and knowledge in specialized subjects, and the availability of schools. Under extreme circumstances of lack of school facilities, broadcasting, especially the more complete medium of television, can become major channels of instruction.

The uses of Radio and Television for information and education in developing countries are rich and manifold. Their application, however, is frequently still of a limited nature; even our knowledge as to how they may be applied in tropical areas or in the isolated mountains of Asia and Latin America is only rudimentary. All too frequently it is based largely on experience in more highly developed societies. There lies a broad, uncharted road ahead which passes through establishment of facilities and training of personnal, to the systematic and creative application of Radio and Television to the vital needs of information and education which harass all developing societies.



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INTER-CONTINENTAL TELEVISION PROGRESS 1965 - FUTURE 1966

By Edgar T. Martin, Engineering Manager and George Jacobs, Chief Frequency Division Voice of America, Washington, D. C. 20547.

The year 1965 can be considered as an important turning-point in the brief history of inter-continental relay of television broadcasts by means of space satellites. The successful launching of the EARLY BIRD communication satellite by the USA early during the year, marked the transition from the purely experimental to the commercial era for space communications.

The history of inter-continental television began on July 23, 1962, when the TELSTAR 1 satellite forged a television link between Europe and North America for the first time. Between late 1962 and the end of 1964, TELSTAR 1 was eventually joined by RELAY 1, TELSTAR 2, RELAY 2 and SYNCOM 3, each with intercontinental television relay capability. Those communication satellites were, however, experimental models, launched to gather information with which it was hoped to eventually develop a global commercial communication satellite system. While the TELSTAR, RELAY and SYNCOM satellites were used for a total of more than 300 experimental inter-continental television relays, they were not available for public use on a commercial basis.

The creation of a Communication Satellite Corporation (COMSAT) in the United States; the signing, by late 1965, of an agreement by forty-six countries to participate in COMSAT as partners, and the launching of the EARLY BIRD satellite, marked the end of the purely experimental phase of space communications, and the beginning of a new phase – the first steps in the establishment of a global commercial communication satellite system.

EARLY BIRD, the world's first commercial communication satellite, was launched by the United States for COMSAT on April 6, 1965. A series of intricate, ground-controlled maneuvers over ten-day period enabled the satellite to be placed in an almost perfect synchronous orbit, approximately 38,900 kilometers (22,300 miles) over the equator above the Atlantic Ocean between Brazil and the western hump of Africa. Appearing as a stationary source in the sky, EARLY BIRD is providing up to 240 simultaneous voice channels or a single television channel for commercial two-way communications between North America and Europe on a 24-hour basis.

The EARLY BIRD satellite, for the first time makes available to the broadcasting networks and organizations of North America and Europe a means for inter-continental relay of news and special event television programs on a scheduled, commercial basis. Indeed, during 1965, television viewers on both continents witnessed several instances of history in the making – live and immediate – as a result of the EARLY BIRD satellite. Among television broadcasts relayed by the satellite were the spectacular launch of the two-man GEMINI-4 space capsule from Cape Kennedy; a dazzling program in color, originating in London, titled "A New Look At Olde England"; and what was perhaps the most dramatic of all, a seven-hour relay of Pope Paul's historic one-day visit to the United Nations and New York City. Tens of millions of television viewers in North America and Europe witnessed the Holy Father as he made his eloquent and stirring appeal for world peace.

The year 1965 also witnessed another important step-forward in the history of space communications, the launching of MOLNIA-1, the Soviet Union's first communication satellite. The satellite was launched on April 23, and is in a highly eccentric orbit which takes it between approximately 600 kilometers (360 miles) and 40,000 kilometers (24,000 miles) above the earth's surface. In such an orbit, MOLNIA-1 is being used to relay communi-

Continued page 52

GEORGE JACOBS

George Jacobs was born on July 16, 1924, in New York City. He received his B.E.E. degree from Pratt Institute, Brooklyn, 1949, and his M.S.E.E. degree from the University of Maryland in 1960.

Mr. Jacobs is a representative of the Interdepartment Radio Advisory Committee (IRAC) and several other policy-level U.S. Government committees in the field on telecommunications. He has served as a delegate to several international broadcasting and telecommunication conferences, including the 1959 ITU Administrative Radio Conference, where he was the U.S. spokesman for high frequency broadcasting.

Most recently he attended the Tenth Plenary Assembly of the C.C.I.R. and the I.T.U.'s International Space Communication Conference, both held in Geneva during 1963. Mr. Jacobs was the U.S. Delegation's spokesman for satellite broadcasting at both conferences.

Mr. Jacobs is a Senior Member of the IEEE, a member of URSI, and a registered Professional Engineer in the District of Columbia.

EDGAR T. MARTIN

Edgar T. Martin was born on May 1, 1918, in Princeton, West Virginia. He received his B.S.E.E. in 1938 and his M.S.E.E. in 1953, both from Virginia Polytechnic Institute. He also holds an M.A. in Government from American University, conferred in 1957 and an LL.B. from George Washington University. In 1959, he earned his LL.M. from Georgetown University.

He is a registered Professional Engineer in Virginia and the District of Columbia, and he is also a member of the Virginia Bar. He has attended more than a dozen major international conferences dealing with broadcasting and telecommunications, and was a delegate to the ITU's Administrative Radio Conference held in Geneva.

(Left) Edgar T. Martin, Engineering Manager, Voice of America. (Right) George Jacobs, Chief, Frequency Division, Voice of America.

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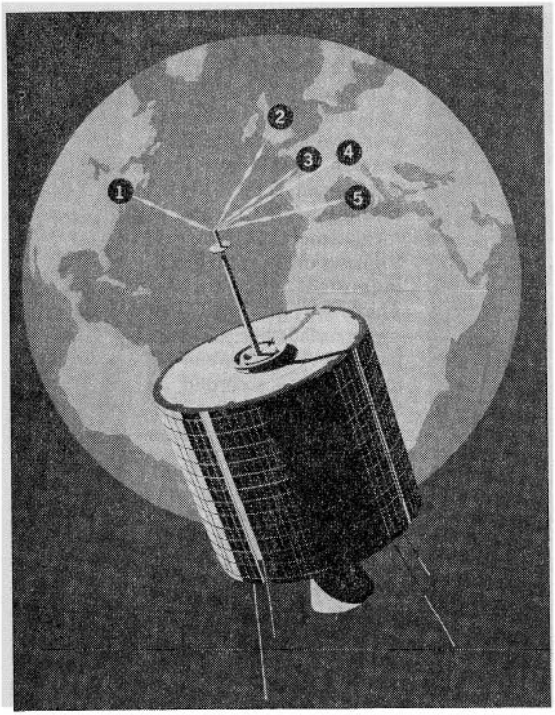

Artist conception of the EARLY BIRD satellite. Viewing one-third of the globe above mid-Atlantic. EARLY BIRD, the world's first commercial communications satellite, is relaying telephone calls, television, teletype and photo-facsimile transmission between North America and Europe twenty-four hours a day.

cations within the Soviet Union for about eight hours a day. Russian officials have reported that the satellite is working very well, and that it has been used to link the television center in Moscow with Vladivostok, some 7500 kilometers (4500 miles) to the east, in Siberia.

The inter-continental, or perhaps more appropriately, inter-spatial television thrills of 1965 did not all come about as a result of communication satellites. Television cameras aboard the American spacecraft RANGER-9, flashed back to earth live television pictures of the moon's surface as the spacecraft approached the heavenly body. Relayed by the national television networks, viewers in North America were treated to an unprecedented glimpse of the moon's mountains, valleys and craters, which were clearly visible almost to the instant that the spacecraft impacted on the moon's surface on March 24.

A week earlier, on March 19, television viewers in Eastern Europe witnessed a history-making walk in outer space. Television cameras aboard the Soviet Union's two-manned spacecraft VOSKHOD-2 were focused on Cosmonaut Leonov as he left the spacecraft, and performed maneuvers for 20 minutes several hundred kilometers above the earth's surface. The television pictures, flashed to a ground station in the Soviet Union, were relayed to viewers in Eastern Europe through the facilities of the Intervision network.

On July 14, the American MARINER-4 spacecraft passed within 8500 kilometers (5100 miles) of the planet Mars and sent television pictures of its surface back to earth. As MARINER-4 passed Mars, a single television camera viewing the planet through a reflecting telescope mounted aboard the spacecraft, took 22 black and white photographs of the Martian surface. The pictures, the first ever to be taken of Mars from such a close distance, were flashed to scientists at a ground station in California, 134 million miles from the spacecraft! After being assembled and studied, the national television networks flashed the pictures to viewers throughout North America, affording an unusual opportunity for a never-before-seen closeup view of the Martian surface.

The year 1966 is expected to see continued advancements in inter-continental television. COMSAT has announced plans to launch a second EARLY BIRD satellite over the Atlantic during 1966, as well as one over the Pacific Ocean, to link North America with Asia and Oceania. Also on the drawing-boards are future COMSAT satellites which will provide 1000 to 1200 telephone channels or at least 4 TV channels simultaneously. This technological improvement in the capacity of future COMSAT satellites will enable significantly greater access to earth stations, and is expected to bring a truly global commercial communication satellite system into being by as early as 1968.

To accomodate the COMSAT satellites, several additional earth stations are expected to be brought into operation during 1966, to supplement those already in operation at Andover, Maine; Goonhilly Downs, the United Kingdom; Pleumeur-Bodou, France; Reasting, Germany; Fucino, Italy; Grinon, Spain and Tokyo, Japan. COMSAT plans to construct earth stations in Hawaii and the state of Washington; Canada has one under construction in Nova Scotia; Australia; New Zealand; the Philippines and Thailand are planning earth-stations in Oceania and Southeast Asia; Argentina, Brazil, Chile and Peru have began construction of earth stations in South America; both India and Pakistan are moving ahead with earth station planning; and Israel, the UAR, and possibly Ethiopia and Nigeria hope to have earth stations under construction during 1966.

The list of forty-six countries that are presently partners with the USA in COMSAT is expected to grow larger during 1966. At least a dozen countries have indicated an interest in joining this international joint venture into space, and several others are also likely to sign the COMSAT agreement.

All, in all, it looks as if inter-continental television will continue to grow during 1966, to include more continents and considerably more countries than during 1965.

Inter-spatial television is also expected to progress during 1966, as spacecraft, both manned and unmanned probe deeper and deeper into space. Viewers on earth are likely to see more detailed pictures of the moon's surface, and of other planets as television cameras aboard the spacecraft flash pictures back to earth across the voids of space.

President Kennedy's life came to a tragic end on November 22, 1963 – but his dreams live on. The year 1966 is expected to see considerable progress in the realization of his dream for a global commercial communications satellite system in which the entire world would participate, and from which all mankind would benefit.

Where to obtain the WRTH: see page 303

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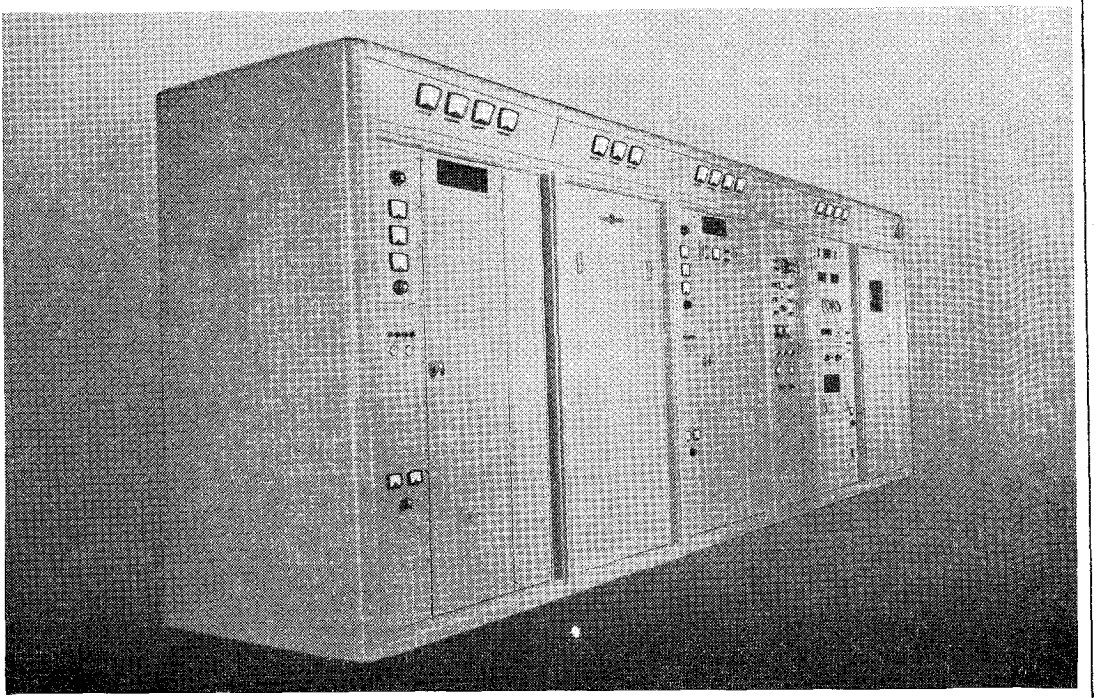

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WHERE TO LISTEN FOR SATELLITE SIGNALS

By George Jacobs, Chief, Frequency Division, Voice of America, Washington, D. C. 20547.

As of October 1, 1965, fifty-seven space orbiting satellites were transmitting radio signals back to earth on no fewer than 112 different frequencies in the h.f., v.h.f., and u.h.f. ranges of the radio spectrum. Many of these transmissions could be received by radio amateurs and space-listeners on earth listening with relatively inexpensive receiving equipment.

Radio transmissions from satellites consist mainly of beacon or telemetery signals. Beacon signals are usually transmitted continously, and are used by ground stations for tracking a satellite. These signals can be identified by their steady tone when the receiver's beat frequency oscillator (BFO) is in the ON position. Telemetry signals, on the other hand, are somewhat more difficult to receive. These signals usually consist of two or more musical tones transmitted at the same time, or in the case of the Russian COSMOS satellites, of a sequence of dots and dashes of varying lengths. Telemetry signals contain scientific data recorded on instruments aboard the satellite, and are decoded by ground stations equipped with special telemetry receiving equipment. Most satellites do not transmit telemetry data continously, but only for short periods of time when commanded to do so by ground stations.

The Radio Regulations of the International Telecommunication Union, Geneva, allocate the following h.f., v.h.f., and u.h.f. bands for satellite transmissions. Most, but not all of the satellites now in orbit transmit in at least one of these bands. A few satellites are using frequencies that are not allocated for space transmissions.

Band	*Purpose of Allocations*
10,003 – 10,005 kc/s	space research
15,762 – 15,768 kc/s	space research
18,030 – 18,036 kc/s	space research
19,990 – 20,010 kc/s	space research
20,007 kc/s	may be used in an emergency, in the search for, and rescue of, astronauts and space vehicles
30,005 – 30,010 kc/s	space research
39,986 – 40,002 kc/s	space research
136 – 137 mc/s	space research (telemetering and tracking)
137 – 138 mc/s	meteorological satellites, space research (telemetering and tracking) and space service
143.6 – 143.65 mc/s	space research (telemetering and tracking)
144 – 146 mc/s	radio amateur space activities
148.25 mc/s (± 15 kc/s)	space telecommand
149.9 – 150.05 mc/s	radionavigation satellites
154.2 mc/s (± 15 kc/s)	space telecommand
183.1 – 184.1 mc/s	space research
267 – 273 mc/s	space (telemetering)
399.0 – 400.05 mc/s	radionavigation satellites
400.05 – 401 mc/s	meteorological satellites maintenance telemetry), space research (telemetering and tracking)
401 – 402 mc/s	space (telemetering)
449.75 – 450.25 mc/s	space telecommand
460 – 470 mc/s	meteorological satellites

Almost every satellite launched by the United States of America transmits beacon or telemetry signals in the 136 – 137 mc/s band; some also transmit in the 19,990 – 20,010 kc/s, 39,986 – 40,002 kc/s, 144 – 146 mc/s, 399.9 – 400.05 mc/s and 400.05 – 401 mc/s bands, as well as on 41 mc/s, 54 mc/s, 150 mc/s, 162 mc/s, 320 mc/s, 324 mc/s and 360 mc/s.

Almost every Russian satellite transmits either beacon or telemetry signals in the 19,990 – 20,010 kc/s band; some also transmit in the 30,005 – 30,010 kc/s band as well as in a narrow band near 90 mc/s.

Many of the signals from both Russian and American satellites transmitting in the h.f. bands (especially near 20 mc/s), can often be heard well on relatively inexpensive short-wave receivers. Satellite signals in the v.h.f. and u.h.f. bands (especially in the band 136–137 mc/s), can often be received with relatively simple frequency converters used with short-wave receivers.

The following list contains those frequencies on which space orbiting satellites were transmitting as of October 1, 1965. Many of these satellites are expected to continue to transmit radio signals during 1966. The list gives the popular name of each satellite, the country responsible for it, and the date of launch. Also given are the period of the satellite's orbit, the satellite's inclination, and whether the satellite's signal is beacon (c.w.) or telemetry, and whether it is continuous or transmitted only upon command.

The period and inclination data should be useful in identifying satellites from which signals are being received. The satellite's *period*, given in minutes, is the time it takes for it to complete an orbit. By timing reception on successive orbits, it is often possible to identify the satellite. *Inclination* is the angle that the satellite's orbit makes with the equator. If a directional antenna is being used to receive satellite signals, the inclination data can be used for determining the direction from which a signal initially will be heard.

The exact time that a satellite passes overhead, or nearest to a listener's location as it orbits in space can be determined by noting the *Doppler shift* on the satellite's signal. The relative velocity of the satellite with reference to a listener on earth causes the satellite's signal to change pitch. The frequency on which the satellite is transmitting will appear to increase as the satellite approaches, and decrease as it moves away from the listener on the ground. The satellite is nearest to being overheard at the instant the pitch of its signal begins to decrease. At 20 mc/s the Doppler shift will be approximately one kilocycle each side of the center frequency, while at 136 mc/s the shift can be as much as six kilocycles. The Doppler shift on the satellite's radio signal is identical to the effect observed when listening to a train whistle or an automobile horn as the vehicle is either approaching, or moving away from the observer at relatively high speeds.

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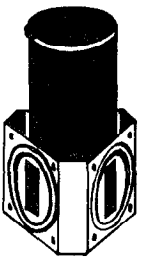

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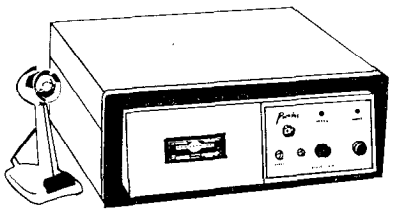

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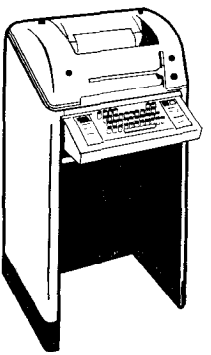

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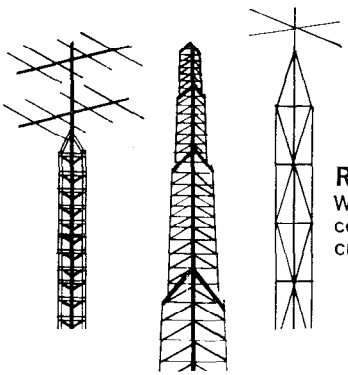

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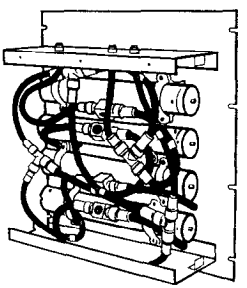

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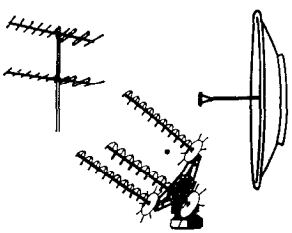

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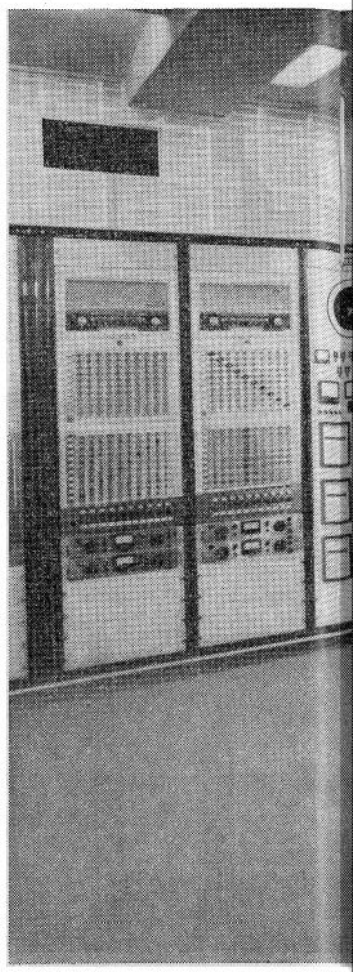

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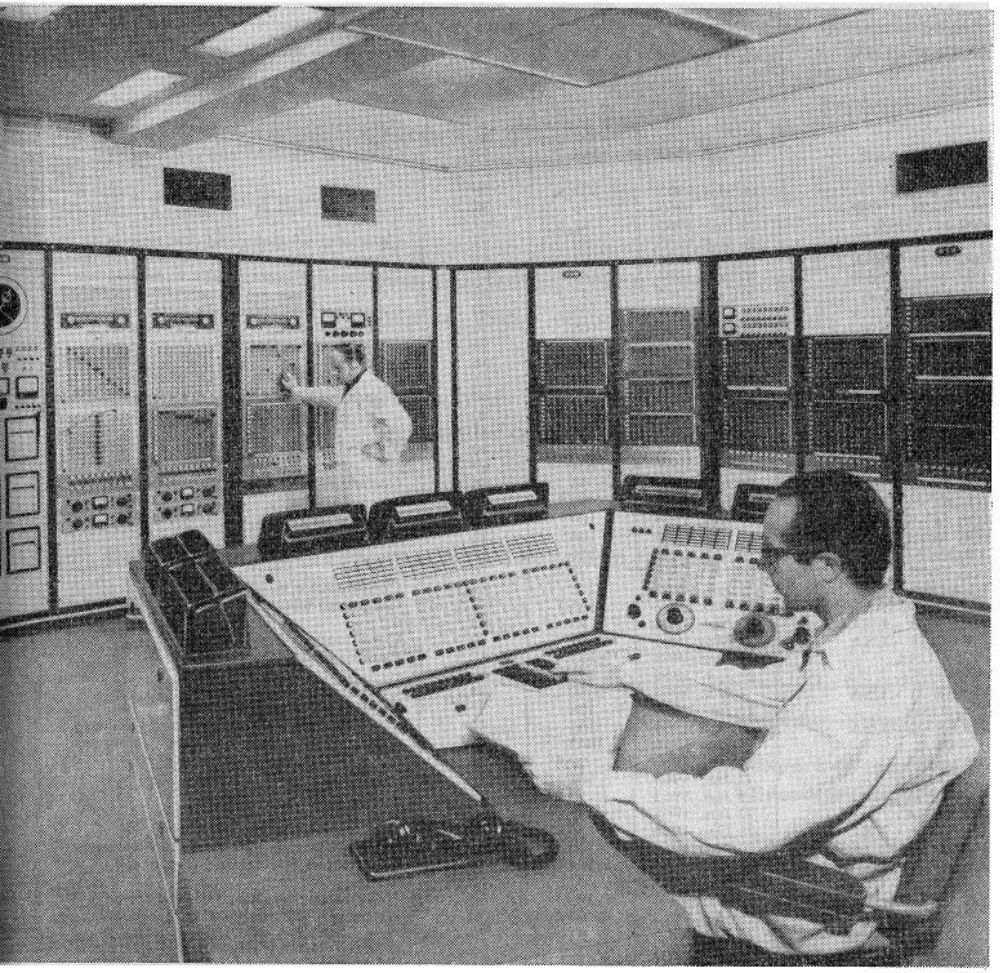

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LIST OF FREQUENCIES ON WHICH SATELLITES CAN BE HEARD (AS OF OCTOBER 1, 1965)

Freq. (Mc)	Satellite Name & Country	Date Launched	Period Minutes	Inclination Degrees	Remarks
1.5	EXPLORER 20 – USA	25 Aug. 1964	104	80	Ionospheric sounder, on command
2.0	–	–	–	–	–
2.850	–	–	–	–	–
3.720	–	–	–	–	–
5.470	–	–	–	–	–
7.220	–	–	–	–	–
19.430	ELECTRON 2 -USSR	30 Jan. 1964	1356	59	Command telemetry and c.w. beacon
19.540	–	–	–	–	–
19.775	COSMOS 63-USSR	15 Mar. 1965	104	56	–
19.800	COSMOS 71-75 –USSR	16 Jul. 1965	96	56	–
19.918	PROTON 1 – USSR	16 Jul. 1965	91.4	63.5	–
19.995	COSMOS 91-USSR	23 Sept. 1965	90	65	Command telemetry and c.w. beacon
20.000	EXPLORER 27 – USA	29 Apr. 1965	108	41	Command transmission, c.w. tone modulated
20.005	ELECTRON 1 – USSR	30 Ja*. 1964	169	61	Command telemetry and c.w. beacon
20.005	COSMOS 53 – USSR	30 Jan. 1965	97.3	49	–
20.005	EXPLORER 22 – USA	10 Oct. 1964	105	80	Command transmission, c.w. tone modulated
20.035	COSMOS 55 – USSR	21 Feb. 1965	105	56	Command telemetry and c.w. beacon
20.084	COSMOS 61 – USSR	15 Mar. 1965	105	56	–
20.084	COSMOS 71-75 – USSR	16 Jul. 1965	95.3	56	–
30.008	ELECTRON 1 – USSR	30 Jan. 1964	169	61	–
40.000	EXPLORER 27 – USA	29 Apr. 1965	108	41	Command transmission, c.w. tone modulated
40.010	EXPLORER 22 – USA	10 Oct. 1964	105	80	–
41.000	EXPLORER 27 – USA	29 Apr. 1965	108	41	–
41.010	EXPLORER 22 – USA	10 Oct. 1964	105	80	–
54.000	TRANSIT 4A – USA	29 Jun. 1961	104	67	–
89.100	COSMOS 71-75 – USSR	16 Jul. 1965	96	56	Command telemetry and c.w. beacon
90.022	COSMOS 53 – USSR	30 Jan. 1965	97.3	49	–
90.023	COSMOS 44 – USSR	29 Aug. 1964	100	65	–
90.158	COSMOS 56 – USSR	21 Feb. 1965	104	56	–
90.225	ELECTRON 2 – USSR	30 Jan. 1964	1356	59	–
90.378	COSMOS 71-75 – USSR	16 Jul. 1965	96	56	–
136.019	ECHO 2 – USA	25 Jan. 1964	108	81.5	Continuous c.w. and telemetry
136.078	ALOUETTE – USA/CAN	29 Sep. 1962	105.5	80.5	Command telemetry
136.078	EXPLORER 23 – USA	6 Nov. 1964	99	52	–
136.125	EXPLORER 28 – USA	29 May 1965	8559	40	Continuous c.w. and telemetry
136.140	RELAY 1 – USA	13 Dec. 1962	185	47.5	Command telemetry
136.142	RELAY 2 – USA	21 Jan. 1964	195	46.4	–
136.147	EXPLORER 21 – USA	4 Oct. 1964	2080	34	Continuous c.w. and telemetry
136.170	ECHO 2 – USA	21 Jan. 1964	108	81.5	Continuous c.w. and telemetry
136.171	EXPLORER 22 – USA	10 Oct. 1964	105	80	Continuous c.w. and command telemetry
136.200	OGO 1 – USA	5 Sep. 1964	3842	40	Command telemetry and c.w. beacon
136.231	TIROS 8 – USA	21 Dec. 1963	99.4	59	–
136.232	TIROS 10 – USA	2 Jul. 1965	101	99	–
136.233	TIROS 7 – USA	19 Jun. 1963	97.4	58	–
136.234	TIROS 9 – USA	22 Jan. 1965	119	96.4	–
136.273	EXPLORER 26 – USA	21 Dec. 1964	455	20.2	Continuous c.w. and telemetry
136.292	EXPLORER 25 – USA	21 Nov. 1964	116	81.4	Continuous c.w. and command telemetry
136.326	EXPLORER 20 – USA	25 Aug. 1964	104	80	Command telemetry and c.w. beacon
136.350	EXPLORER 20 – USA	–	–	–	–
136.405	ARIEL 1 USA/UK	26 Apr. 1962	100	54	Continuous c.w.and command telemetry
136.410	PEGASUS 1 – USA	16 Feb. 1965	97	32	Command telemetry and c.w. beacon
136.410	PEGASUS 2 – USA	25 May 1965	97	32	–
136.410	PEGASUS 3 – USA	30 Jul. 1965	95	29	–
136.440	EARLY BIRD – USA	6 Apr. 1965	1437	0.13	Continuous c.w. and command telemetry
136.467	SYNCOM 2 – USA	26 Jul. 1963	1436	31.8	–
136.470	SYNCOM 3 – USA	19 Aug. 1964	1436	0.10	Command telemetry and c.w. beacon
136.557	ARIEL 2 – USA/UK	27 Mar. 1964	100	52	Continuous c.w. and command telemetry
136.590	PEGASUS 3 – USA	30 Jul. 1965	95	29	Command transmission
136.591	ALOUETTE – USA/CAN	29 Sep. 1962	105.5	80.5	–
136.620	RELAY 2 – USA	21 Jan. 1964	195	46.4	Continuous c.w. and command telemetry
136.621	RELAY 1 – USA	13 Dec. 1962	185	47.5	Continuous c.w. and command telemetry
136.650	1964 – 83C – USA	13 Dec. 1964	106	90	Continuous c.w. beacon
136.653	1963 – 38C – USA	28 Sep. 1963	107	90	Command telemetry and c.w. beacon
136.680	EXPLORER 20 – USA	25 Aug. 1965	104	80	Continuous c.w. and command telemetry
136.709	EXPLORER 24 – USA	21 Nov. 1964	116	81.4	Continuous c.w. beacon
136.713	OSO 2 – USA	3 Feb. 1965	96.5	33	Continuous c.w. and telemetry
136.740	EXPLORER 27 – USA	29 Apr. 1965	108	41	Command telemetry and c.w. beacon
136.766	GRAVITY GRADIENT 3-USA	9 Mar. 1965	103.5	70	Continuous c.w. beacon and telemetry
136.768	1965 – 58C – USA	20 Jul. 1965	2611	34.4	–
136.800	SOLAR RAD – USA	9 Mar. 1965	103.5	70	–
136.805	EGRS – 1 – USA	11 Jan. 1964	103.4	70	–
136.840	EGRS – 3 – USA	9 Mar. 1965	103.5	70	–
136.860	EXPLORER 25 – USA	21 Nov. 1964	116	81.4	Command telemetry
136.861	EXPLORER 23 – USA	6 Nov. 1964	99	52	Command telemetry and c.w. beacon
136.886	SOLAR RAD – USA	11 Jan. 1964	103.5	70	Continuous c.w. and telemetry
136.889	PEGASUS 2 – USA	25 May 1965	97	31.8	Continuous c.w. beacon
136.890	PEGASUS 1 – USA	16 Feb. 1965	97	31.8	–
136.918	TIROS 9 – USA	22 Jan. 1965	119	96.4	Command transmission

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Freq. (Mc)	Satellite Name & Country	Date Launched	Period Minutes	Inclination Degrees	Remarks
136.924	TIROS 7 – USA	19 Jun. 1963	97.4	58	–
136.924	TIROS 8 – USA	21 Dec. 1963	99.4	58.5	Command transmission
136.924	TIROS 10 – USA	2 Jul. 1965	101	98.6	–
136.980	SYNCOM 2 – USA	26 Jul. 1963	1436	31.8	–
136.980	SYNCOM 3 – USA	19 Aug. 1964	1436	0.10	Continuous c.w. and command telemetry
136.980	EARLY BIRD – USA	6 Apr. 1965	1437	0.13	Command c.w. beacon and telemetry
145.85	OSCAR 3 – USA	9 Mar. 1965	103.5	70	Continuous telemetry
145.95	OSCAR 3 – USA	–	–	–	Continuous c.w. beacon
150	TRANSIT 4 A – USA	29 Jun. 1961	104	67	Command tone-modulated c.w.
150	1963 – 22A – USA	16 Jun. 1963	100	90	Command tone-modulated c.w. and telemetry
150	1963 – 49B – USA	5 Dec. 1963	107	90	–
150	1964 – 26A – USA	4 May 1964	103	90.5	–
150	1964 – 83D – USA	13 Dec. 1964	106	90	–
162	ANNA IB – USA	31 Oct. 1962	108	50	Command tone-modulated c.w.
162	1963 – 38C – USA	28 Sep. 1963	107	90	Command tone-modulated c.w. and telemetry
162	EXPLORER 22 – USA	10 Oct. 1964	105	80	Command tone-modulated c.w.
162	1964 – 83C – USA	13 Dec. 1964	106	90	Command tone-modulated c.w. and telemetry
162	EXPLORER 27 – USA	29 Apr. 1965	108	41.2	Command tone-modulated c.w.
320	1964 – 83C – USA	13 Dec. 1964	106	90	Command transmission
324	TRANSIT 4A – USA	29 Jun. 1961	104	67	Command tone-modulated c.w.
324	ANNA IB – USA	31 Oct. 1962	108	50	–
324	1963 – 38C – USA	28 Sep. 1963	107	90	Command transmission
324	EXPLORER 22 – USA	10 Oct. 1964	105	80	Command tone-modulated c.w.
324	EXPLORER 27 – USA	29 Apr. 1965	108	41.2	–
360	–	–	–	–	Command transmission
360.090	EXPLORER 22 – USA	10 Oct. 1964	105	80	Command tone-modulated c.w.
400	TRANSIT 4A – USA	29 Jun. 1961	104	67	–
400	1963 – 22A – USA	16 Jun. 1963	100	90	Command c.w. beacon and telemetry
400	1963 – 49B – USA	5 Dec. 1963	107	90	Command tone-modulated c.w. and telemetry
400	1964 – 26A – USA	4 May 1964	103	90.5	Command tone-modulated c.w.
400	1964 – 83D – USA	13 Dec. 1964	106	90	Command transmission
400.250	OGO 1 – USA	5 Sep. 1964	3842	39.7	Command c.w. beacon and telemetry
400.850	OGO 1 – USA	5 Sep. 1964	–	–	–

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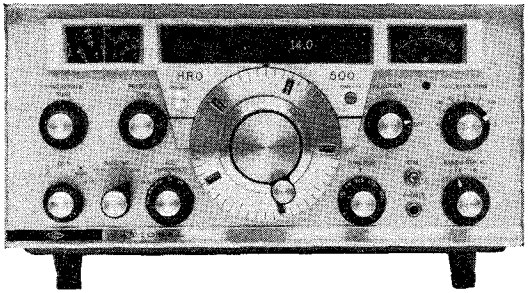
NATIONAL'S NEW HRO-500 HF/VLF RECEIVER IS TOTALLY SOLID STATE... OUTPERFORMS CONVENTIONAL TUBE UNITS... AND IS FAR LOWER IN COST!

National's new HRO-500 receiver is totally solid state for versatility, portability, and reliability. It incorporates a phase-locked frequency synthesizer to cover the extraordinary range of 5 kilocycles to 30 megacycles in sixty bands, with identical stability, tuning rate, and high calibration accuracy throughout. Complete SSB/CW/AM facilities are provided, as well as all necessary outputs for operation of ancillary equipment. ■ Total solid state design provides remarkable versatility and reliability, as well as simplified power and cooling requirements. The HRO-500 operates directly from either 115/230 V.A.C. or 12 V.D.C. sources (12 volt current drain is only 200 ma at low audio output with pilot lamps switched off). Transistors provide instant-on operation without delay or warm-up drift. ■ Entire VLF and HF spectrums . . . from 5 Kc to 30 Mc . . . are tuned continuously with 1 Kc dial calibration and 10 Kc per turn tuning rate. The HRO-500 provides better than 1.0 μv for 10 db S/N SSB/CW sensitivity with 60 db minimum image rejection (optional LF-10 preselector is recommended for optimum VLF performance). Effective dial scale length is 24 feet per megacycle, with ¼″ spacing between one-Kc calibrations. ■ Frequency is determined by a phase-locked crystal frequency synthesizer, which eliminates multiple crystal oscillators for high frequency oscillator injection. All HFO signals are synthesized from the output of a 500 Kc master crystal oscillator for maximum stability and elimination of band-to-band recalibration. Long-term stability from turn-on is equal to that of the best tube-type commercial receivers *after* warm-up. ■ Dynamic range and cross-modulation characteristics are equivalent to, or better than, many competitive tube-type receivers of similar sensitivity. ■ The HRO-500 provides superb SSB/CW/FSK performance with separate product detector, fast-attack, slow-decay AGC, and selectable sideband. The tunable filter provides four discrete I.F. bandwidths of 500 cps, 2.5, 5.0, and 8 Kc, with nominal 6-60 db shape factor of 2.5:1. *Passband Tuning* is provided in the 500 cps and 2.5 Kc bandwidths, for selectable sideband or single-signal reception without change in frequency or beat-note. ■ The HRO-500 is compact in size and light in weight: 7⅝″ H, 16½″ W, 12¾″ D; weight only 32 lb. A rack mounting kit is available for standard 8¾″ RETMA panel. ■ Write to National for detailed information, performance data, and complete specifications.



NATIONAL RADIO COMPANY, INC.

DEPARTMENT H ■ 37 WASHINGTON STREET, MELROSE, MASSACHUSETTS 02176

RELIGIOUS BROADCASTING ORGANIZATIONS

WORLD ASSOCIATION FOR CHRISTIAN BROADCASTING

(formerly "World Committee for Christian Broadcasting"), constituted at its Limuru, Kenya, Assembly, May, 1963.
Purpose: "to provide a working fellowship of churches, agencies, organizations and persons concerned with the use of radio and television to proclaim the Christian Gospel in its relevance to the whole of life, and with the role of these media in society" (WACB Constitution).
Address: Edinburgh House, 2 Eaton Gate, London S.W. 1.
Chairman: Bishop Dr. Fridtjov Birkeli, Stavanger, Norway–Vice-chairman: Rev. K. D. Bhasker, 15, New Civil Lines, Jabalpur, M.P., India–Secr: W. N. Haddad, Box 5376, Beirut, Lebanon–Tresurer: Rev. F. R. Wilson, 475, Riverside Drive, New York 27–Executive Director: Rev. Edwin H. Robertson, Edinburgh House, 2 Eaton Gate, London S.W. 1., England. Associate to the Exec. Dir: Rev. C. Michael de Vries, 150 Route de Ferney, 1211 Geneva 20, Switzerland–Regional Repr's: Africa, E. Fashade, Box 67, Ilesha, Nigeria–Asia, M. Ogawa, Christian AV Center, 22, Midorigaoka, Shibuya Ku, Tokyo, Europe; Rev. Dr. R. Ley, Stäfa, Zurich, Switzerland, Latin America, Dr. A. J. Ribeiro, C.P. 943, Campinas, São Paulo, Brasil. Near East; W. N. Haddad Box 5376, Beirut Lebanon. No. America; Dr. H. C. Spencer, 1525, McGavock Str, Nashville, Tennessee, USA. Editor "The Christian Broadcaster": Rev. H. H. Hoskins, BBC, London W. 1. Editor "Medium" (German): Christian Hoffmann, Birkerstrasse 22, 8 München 2, Germany.

WORLD COUNCIL OF CHURCHES

The Rev. C. Michael de Vries, Secretary for Work in the Field of Broadcasting, Dept. of Information. **Addr:** 150, Route de Ferney, 1211 Geneva 20, Switzerland.
The Lutheran World Federation. Same address. The addr. of the Lutheran World Federation Broadc. Sce. is P.O. Box 654, Addis Ababa, Ethiopia – Dir. of Broadc: Rev. S. Aske, Ph. D. – Public-occasional newsletters.

ROMAN-CATHOLIC

Pontifical Commission for the Communications Media.
Addr: Palazzo S. Carlo, Vatican City State.
Pres: Archbishop of Laodicea in Syria the Most Reverend Martin J. O'Connor.
UNDA: Association catholique internationale pour la Radiodiffusion et la Télévision (International Catholic Organization for Broadcasting and Television).
Protector: Bishop of Lausanne, Genève and Fribourg, Mgr. François Charrière, Fribourg. Switzerland.
Secretariat General: Rue de Romont 5, Case Postale 211, 1701 Fribourg, Switzerland.
Secr. Gen: Dr. J. Schneuwly.
Administration Council: consist of 12 members.
Pres: Mgr. J. Haas, Lausanne, Switzerland. Consultative status at UNESCO.
Secretariat for Latin America: 385, Rua São Clemente, Rio de Janeiro. Dir: Miss Marina Bandeira de Carvalho, Rio de Janeiro, Brazil.
Members of the Organization:
Ordinary members: Germany, England, Austria, Belgium, Scotland, Spain, France, Ireland, Italy, Luxembourg, Monaco, Netherland, Switzerland, Vatican State.
Brazil, Bolivia, Canada (English- and French speaking sections), Chile, USA, Venezuela, Malagasy Rep; Argentina, Australia, Malta, Mexico, Nicaragua, Rhodesia, New Zealand.
Extraordinary members: Denmark, Portugal, Sweden, Curaçao, Haiti, Dominican Rep, Guadeloupe, Martinique, Panama, Costa Rica, Honduras, Guatemala, El Salvador, Puerto Rico, Columbia, Peru, Paraguay, Uruguay, St. Lucia, French Guiana, Ecuador.
Zambia, Burundi, Congo (Léopoldville), Congo (Brazzaville), Ivory Coast, Central African Rep, Dahomey, Upper Volta, Rwanda, Senegal, Togo, French Somaliland, Réunion, New Caledonia, Algeria, South Africa Rep, Japan, Philippines, Vietnam, Taiwan, Trinidad.
Corresponding members: Finland, Norway, Dutch Guiana, Greece, Egypt, Morocco, Tunesia, Angola, Mozambique, Basutoland, Hong-Kong, Tasmania, India, Pakistan, Lebanon, Iraq, South Korea.
UNDA-Revue: French and English.
UNDA-Nouvelles: French and English editions.

RELIGIOUS SOCIETIES PROTESTANT

ERA: Evangelical Radio Alliance, 30 Bedford Place, London W.C. 1, England. Secr: Rev. J. Hywel Davies.
IBRA Radio Mission, Box 821, Stockholm I, Sweden, Memberorganization: IBRA Radio Federation is an intern. fed. of listeners. (See Sweden).
IKOR (Ecumencial society): Interkerkelijk Overleg in Radioaangelegenheden, Hilversum, Borneolaan 27.
NCRV, Nederlandsche Christelijke Radio Vereeniging, Schuttersweg 8, Hilversum.
NOREA: Nordic Radio Evangelistic Association. In connection with Norwegian Lutheran Mission. Cooperating with Trans World Radio, Monaco. Broadcasting over R. Monte Carlo. (See Norway).
VRPO, Vrijzinnig Protestantse Radio-Omroep, Hilversum, Holland.
Radio Reveil, Via Tesserete 51, Lugano.

AFRICA:

CENTAVEP: Centre des Techniques Audio-Visuelles de l'Eglise Presbytérienne Camerounaise, B.P. 187, Yaounde, Rép. Fédérale du Cameroun. Dir: D. J. Mvogo. (Is owned by the Cameroun Presbyterian Church, but helps the other Protestant Churches of the Federation).

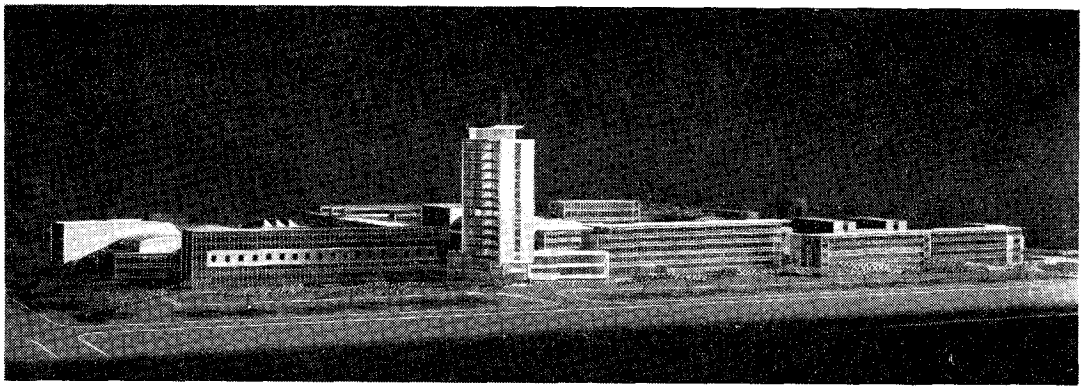
AMERICA:

Trans World Radio: Home office: 354 Main Str, Chatham, New Jersey, USA. Dir. of Radio: B. L. Armstrong, M.A, B.D. (Owns and operates two st's in Monaco and Bonaire, Neth. Antilles).
National Religious Broadcasters, an association of Protestant national and intern. broadcasters on radio and tv. Pres: Dr. E. R. Bertermann, 210 North Broadway, Saint Louis 2, Missouri.
International Christian Broadcasters, an international service organization for those who use radio and television to proclaim the Gospel, and to encourage the use of these mass media throughout the world for the furtherance of the Gospel. Sponsors of national and international conferences.
Addr: 4440 Saratoga, Downers Grove, Ill, USA. Pres: Clarence W. Jones. Exec. Secr: Richard Wolff.
Lutheran Television Productions, a Board of the Lutheran Church-Missouri Synod, producing and distributing "This is the Life" and "The Fisher Family". Exec. Secr: Dr. E. R. Berterman. Prgr. Dir: Dr. H. W. Gockel, 210 No. Broadway, Saint Louis 2, Missouri.
Difusiones Inter Americanas: (DIA), an evangelical organization, established to produce, process, distribute and promote radio and tv. prgr's, recordings and audio visual aids for the evangelizing of Latin America – Addr: Apt. 2470, San José, Costa Rica.
Latin America Mission, 285 Orchard Terrace, Bogota, N.J. and Apt. 1307, San José, Costa Rica. Gen. Dir: Dr. Horace L. Fenton. Radio Dir: Paul Preitz. Publ: "Radio Headlines".
Central American Mission, (operates TGNA, Guatema), 3611 Congres Ave, Dallas, Texas.
Centro Audio-Visual Evangélico (CAVE) Produce and distribute religious, cultural audio-visual materials, like films, records projector for filmstrips and slides, radio & TV programs, primarily in Portuguese. Idem dubbing foreign language 16 mm movies. Excellent studio and laboratory facilities – Gen. Secretariate: Dr. A. J. Ribeiro. Addr: Box 943, Campinas, São Paulo, Brazil.
The Evangelical Alliance Mission, 2845 West McLean Av, Chicago, Ill, 60647, USA. Gen. Dir: V. Mortenson. Operates HLKX, Inchon, Rep. of Korea, PJA-6, Aruba, Neth. Antilles, OAZ, Lima, Peru.
The Gospel Missionary Union. Headquarters, Drawer "C". Smithville, Mo. USA. Pres: Don P. Shidler. Publ: Gospel Message.
West Indies Mission, R. D. 1, Box 279 Homer City, Penn. USA – Dir. Gen: Rev. E. V. Thompson. Dir. of Radio Haiti Field: Rev. David Hartt. Publ: "The Whitened Harvest". Is working in the West Indies and in South America.
Broadcasting and Film Commission NCCUSA, New York, USA. National Council of Churches of Christ in the USA, 475 Riverside Drive, New York 27, Exec. Dir: W. F. Fore.
RAVEMCCO, New York, USA, Radio, Visual Education and Mass Communication Committee of the Division of Overseas Ministries of the National Council of the Churches of Christ in the USA, 475 Riverside Drive, New York 27, N.Y., Exec. Secr: Dr. B. M. Luben.
Far East Broadcasting Co. Inc, P.O. Box 1, Whittier, California. Pres: Robert H. Bowman. Private Comp. with offices in twelve countries. Publ: "FEBC Broadcaster" monthly. Operates st's in Manila (Philippines), Naha (Okinawa) & San Francisco (USA).
The Lutheran Hour "Bringing Christ to Nations", Saint Louis, USA. Sponsored by The Lutheran Laymen's League, 2185 Hampton Avenue, St. Louis, Missouri 63139. Exec. Dir: P. Friedrich. Dir. Broadc: C. Thomas Spitz.
The Oriental Missionary Society and the Inter-American Missionary Society, 850 N. Hobart Blvd. Los Angeles 29, California, USA. Pres: Dr. Eugene Erny. Dir. Haiti Field incl. allied missionary activities: E. Turnidge, Box 1, Cap Haitien, Haiti. Operates St. 4VEH, Cap Haitien, Haiti.
World Radio Missionary Fellowship: HCJB-TV, Quito, Ecuador; HOXO, Panama, R.P. USA. Pres: Abe Van der Puy, P.O. Box 691, Miami, Florida. Operates La Voz de los Andes HCJB Ecuador; No. American Headquarters P.O. Box 691, Miami, Florida 33147.
Canadian Baptist Foreign Mission Board, 190 St. George Str., Toronto 5, Ontario, Canada. Gen. Secr: Dr. O. E. Daniel. Operates R. La Cruz del Sur, La Paz, Bolivia.

ASIA AND PACIFIC:

The Near East Council of Churches: William N. Haddad Gen. Dir. of the Commission on Radio Broadcasting, P.O. Box 5376, Beirut, Lebanon.

Continued page 93



POLSKIE RADIO I TELEWIZJA

BROADCASTS NEWS, MUSIC, FEATURE PROGRAMMES ON LONG, MEDIUM AND SHORT WAVES

FULL INFORMATION SEE POLAND

FREQUENCY BANDS ALLOCATED TO BROADCASTING, TELEVISION AND AMATEURS

The table is based upon the Geneva Regulations 1959. Some bands are shared with other services. In certain countries exceptions from the table below apply. **Region 1:** Europe, U.S.S.R. in Asia, Africa. **Region 2:** N. and S. America, Northeast Pacific. **Region 3:** Asia exc. U.S.S.R., Australia, N. Zealand, part of Pacific. [1]) Certain countries only, max 10W, special agreements.

	Region 1 kc	Region 2 kc	Region 3 kc
BC	150–285		
BC	525–1605	525–1605	525–1605
AMAT	1715 -2000[1])	1800–2000	1800–2000
BC(trop)	2300–2498	2300–2495	2300–2495
BC(trop)	3200–3400	3200–3400	3200–3400
AMAT	3500–3800	3500–4000	3500–3800
BC	3950–4000		3900–4000
BC(trop)	4750–4995	4750–4995	4750–4995
BC(trop)	5005–5060	5005–5060	5005–5060
BC	5950–6200	5950–6200	5950–6200
AMAT	7000–7100	7000–7300	7000–7100
BC	7100–7300		7100–7300
BC	9500–9775	9500–9775	9500–9775
BC	11700–11975	11700–11975	11700–11975
AMAT	14000–14350	14000–14350	14000–14350
BC	15100–15450	15100–15450	15100–15450
BC	17700–17900	17700–17900	17700–17900
AMAT	21000–21450	21000–21450	21000–21450
BC	21450–21750	21450–21750	21450–21750
BC	25600–26100	25600–26100	25600–26100
AMAT	28000–29700	28000–29700	28000–29700

	Region 1 Mc West	Region 1 Mc East	Region 2 Mc	Region 3 Mc
BC(TV)	41–68	41–66		44–50
AMAT			50–54	50–54
BC(TV)			54–72	54–68
BC(TV)			76–88	
BC(FM)	87.5–100	66–73	88–108	87–108
BC(TV)		76–100		
AMAT	144–146		144–148	144–148
BC(TV)	174–216		174–216	170–216
AMAT			220–225	
AMAT	430–440		420–450	420–450
BC(TV)	470–960		470–890	470–585
BC(TV)				610–960
AMAT	1215–1300		1215–1300	1215–1300
AMAT	2300–2450		2300–2450	2300–2450
AMAT			3300–3500	3300–3500
AMAT	5650–5850		5650–5925	5650–5850
AMAT	10000–10500		10000–10500	10000–10500
BC	11700–12700		11700–12700	11700–12700
AMAT	21000–22000		21000–22000	21000–22000

STANDARD FREQUENCY & TIME SIGNAL STATIONS

The ordinary sw, listener soon notices a specialized technical prgr. of tones and time pulses usually received on carrier freq's of 2,5 5, 10 or 15Mc and sometimes on 20 and 25Mc, if he listens in that part of the spectrum. These signals have many uses in science and technology. They are most useful to the non-specialist in obtaining accurate time, in checking the calibration of his radio receiver, and in gaining information on radio propagation conditions. The forecasts of the present and future state of the ionosphere can be quite useful in determining the possibilities of sw-reception. The forecasts are given by WWV, WWVH and JJY for certain parts of the globe.

STATION LOL
Addr: Observatorio Naval, Avenida Costanera Sur 2099, Buenos Aires, Argentina – **L.P:** Dir. Gen: J. E. Marpegán.
Standard Freq. and Signals: 5000kc 2kW – 100000kc 2kW – 15000kc 2kW: 15 Oct. to last Feb: 11.00–12.00, 14.00–15.00, 17.00–18.00, 20.00–21.00, 23.00–24.00; 1 March to 14 Oct: D 12.00–13.00, 15.00–16.00, 18.00–19.00, 21.00–22.00, 00.00–01 00 – **Schedule:** 2 min dash (1000 or 440cs alternately) beginning at 00.00, 00.05, 00.10 etc. Then 3×LOL in morse followed by "Observatorio Naval Argentina" followed by hrs & min's, preceding dash tone. T.S. transmission at min. 55–59 in each h – **V.** by QSL-card or letter. Re. wanted.

STATION VNG – AUSTRALIAN POST OFFICE
Addr: Station VNG, c/o Assistant Dir. Gen, Radio Section, Postmaster-General's Dept, 57 Bourke St, Melbourne C. 1. Australia. **Cable:** "Gentel" – **Stations:** Lyndhurst: 5425kc 1kW: 12.00–22.30 – 7515kc: 12.00–22.30(10kW), 22.30–12.00(1kW) – 12005kc 10kW: 22.30–12.00 – The st. has bursts of 1000 c/s. per second tone each second, exc. the 59th second of each min. Just before each h a recording is played: "This is an Australian Post Office time signal tr. from VNG in the 5.5, 7.5 or 12Mc bands" – **V.** by QSL-card.

STATIONS VHP (Belconnen) & VIX (Sydney)
Addr: The Astronomer, Commonwealth Observatory, Mount Stromlo via Canberra, Australia – **Stations:** VHP/VIX 44kc: 00.25–00.30 (exc. Tues, Thurs); VHP/VIX4 8478kc: 00.25–00.30, 07.55–08.00, 13.55–14.00, 19.55–20.00 (Belconnen & Sydney share the same freq's). Other available freq's: 4286, 6428.5, 12907.5, 17256.8, 22485kc.

OBSERVATORIO NACIONAL DE ASTRONOMIA, BRAZIL
originates time signals, which are broadcast by stations PPE & PPR. **PPE: Addr:** Serviço da Hora, Observatorio Nacional de Astronomia, Rua Gen. Bruce 586, Rio de Janeiro, GB – **L.P:** Chief Eng: C. G. Lacombe – **Station:** 8721kc: 13.25–13.30, 20.25–20.30, 00.25–00.30. **PPR: Addr:** Radio Rio, Av. Francisco Bhering, Arpoador, Rio de Janeiro, GB – **Stations:** 435, 8634, 13105, 17194kc: 14.25–14.30, 21.25–21.30, 01.25–01.30.

DOMINIAN OBSERVATORY, CANADA
Addr: 3, Observatory Crescent, Ottawa 4, Ontario, Canada. **Te:** 232-8211 – **L.P:** Adm: Dr. J. Hodgson. Dir. Tec: M. M Thomson. **Stations:** CHU 3330kc 90.09m 3kW – 7335kc 40.90m 3kW – 14670kc 20.45m 3kW – **T.S:** Continous in voice and second pulses – **Ann:** English: "CHU Canada, Eastern Standard Time". French: CHU Canada, Heure normale de l'est" – **V.** by QSL-card. Re. welcomed – **Pub:** Station information free.

STANDARD FREQUENCY STATION OMA
Addr: Budecska 6, Praha 2, Vinohrady, Czechoslovakia. **Te:** 258757 – **L.P:** Dir: B. Sternberk – **Stations:** OMA 50kc 5kW: 24 h – OMA 2500 kc 1kW: 24 h – OLB5 3170kc 8kW: 24 h – OLD2 18985kc 8kW directed to F. East; Wed, Fri 12.30–13.00 – **Ann:** In morse-code – **V.** by letter. Re. wanted.

NATIONAL RESEARCH CENTRE OF TELECOMMUNICATIONS
Addr: Centre National d'Etudes des Télécommunications, Laboratoire de Bagneux, 196 rue de Paris, Bagneux (Seine), France – **Station:** FFH 2500kc 0.25kW: Tues & Fri 08.30–16.30 – **Ann:** Identifies in morse code every 20 min's.

BUREAU INTERNATIONAL DE L'HEURE
Addr: 61 Avenue de l'Observatoire, Paris 14, France – **L.P:** Chef des Services: B. Guinot – **Stations:** St. André de Corcy FTA91 91.15kc: 08.00, 09.00, 09.30, 13.00, 20.00, 21.00, 22.30 – Pontoise FTH42 7428kc: 09.00, 21.00 – FTK77 10775kc: 08.00, 20.00 – FTN87 13873 kc: 09.30, 13.00, 22.30 – **V.** by letter.

DCF77, MAINFLINGEN
Addr: Physikalisch-Technische Bundesanstalt, Braunschweig, Bundesallee 100, Fed. Rep. of Germany. **Cable:** "Bundesphysik". **Te:** 5921 – **L P:** Pres: Prof. Ing. Kersten. Dir. of Dept. I: Prof. Dr. U. Stille. Dir: Prof. U. Adelsberger, Dr. Ohl, Dr. Süss.
Station: DCF77 77.5kc 12kW, nd W transm. extends essentially from 06.45–10.35, 19.00–20.10. Call-sign DCF77 in morse-code, amplitude modulation 440cs.

GERMAN HYDROGRAPHIC INSTITUTE
Addr: Bernhard Nocht Str. 78, Hamburg 4, German Federal Rep. **Stations:** Norddeich (DAN) 2614kc, Elmshorn (DAM) 4265, 6475.5, 8638.5, 12763.5, 16980kc: 11.55, 12.06, 23.55, 00.06.

GERMAN GEODETIC INSTITUTE
Addr: Deutsche Akademie der Wissenschaften zu Berlin, Potzdam-Telegrafenberg, German Democratic Republic – **L.P:** Dipl. Ing. G. Hemmleb – **Station:** Nauen (DIZ) 4525kc 5kW: 05.00–08.15, 09.45–02.00.

NATIONAL PHYSICAL LABORATORY (Gov.)
Addr: Teddington, Middlesex, Gt. Britain.
MFS Standard Frequency Service:

kc	m	kW		kc	m	kW	
60	5000	10	14.29–15.30**	5000	60	0.5	continuous*
2500	120	0.5	continuous*	10000	30	0.5	continuous*

* continuous but tr. interrupted 6 times an h at min's 5–9½, 15–19 ½, 25–29½ etc – ** continuous from March or April 66.
Ann: Call sign and freq. offset (in parts in 10^{10}) 3 times in slow morse, at min's 9½–10, 19½–20, etc. in each h – **V.** by letter.

ROYAL GREENWICH OBSERVATORY
Addr: Time Dept. Herstmonceux Castle, Hailsham, Sussex, England. The international t.s's are radiated by GBZ (19.6kc) at 03.00, 09.00, 15.00 & 21.00 and on high freq's at 09.00 and 21.00. The freq's used are selected according to current ionospheric predictions. Freq's available: GIC24 4025kc, GAY25 5807kc, GIC26 6985kc, GIC27 7397.5kc, GIC29 9350kc, GPB30B 10331.5kc, GPB30 10332.5kc, GKU5 12790kc, GIC33 13555kc, GIC37 17685kc, GIA39 19640kc.

ATA, NEW DELHI, INDIA
Addr: National Physical Laboratory, New Delhi.
Stations: 10000kc 2kW: Mon–Fri 05.30–07.30.

IAM, ROME, ITALY
Addr: Istituto Superiore, Ministero P. T, Rome.
Station: 5000kc 1kW – All days exc. Sun 07.30–08.30.

IBF, TURIN, ITALY
Addr: Istituto Elettrotecnico Nazionale, Corso Massimo d'Azeglio 42, Torino. **Te:** 688 773 – **Station:** 5000kc 0.3kW: W 06.50–07.30, 10.50–11.30 – **Ann:** "Emissioni di frequenze e tempo campioni dall 'Istituto Elettrotecnico Nazionale" – **V.** by letter.

STATION JJY
Addr: Radio Research Laboratories, Koganei, Tokyo, Japan. **Te:** (04.23)-81-1661 – **L.P:** Chief Standard Freq. Section. Y. Saburi – **Stations:** All 2kW nd, 24 h: 2500kc – 5000kc – 100000kc – 15000kc. All freq's are interrupted at 29–39 min. past each h. Mod. seconds pulses of 8 cycles of 1600c/s, and 1000 c/s tone – **Ann:** At 34-35 min's & 59–00 min's in each h. identifying signals are tr. consisting of call sign in morse code (twice), time in JST once in morse code, call sign twice in voice, time in JST once in voice and grade of propagation warning in morse code – **V.** by QSL-card.

ZLFS, LOWER HUTT, NEW ZEALAND
Addr: Physics & Engineering Laboratory, Lower hutt, New Zealand. **Station:** 2500kc 0.3kW: CW only Tues 01.00–04.00 – **Ann:** St. identification is made in morse code at the beginning & end of each tr.

REP. OBSERVATORY SOUTH AFRICA
Addr: Republic Observatory, Johannesburg. **Te:** 43-2026. **Cable:** Astronomer – **L.P:** J. Hers – **Stations:** Call ZUO: Olifantsfontein 5000kc 4kW – Johannesburg 10000kc 0.25kW – Johannesburg 100Mc 0.050kW directional. 24 h per day, exc. for interruptions 15 to 25 min. past each h.
Time Signals: Continuous second pulses, consisting of 5c/s of 1000c/s tone. The minute pulse in prolonged to about ½ second – **Ann:** In morse code every 15 min's (just before each quarter hour): ZUO. ZUO, ZUO followed by the Universal time of the next minute – **V.** by letter will be answered if they are genuine reports.

HBN NEUCHATEL OBSERVATORY
Addr: Neuchatel, Switzerland. **Cable:** Observatoire. **Te:** (038)-5-1238. **L.P:** Dir: J. Bonanomi, W. Schuler – On 5000kc all day long:
Prgr. of tr: continuous tr. interrupted every 5 min. for 5 min. according to the following schema: 00m 00s – 04m 50s silence, 04m 50s – 05m 00s HBN (A_3), 05m 00s – 10m 00s carrier tr. with seconds pulses, 10m 00s – 14m 50s silence, etc – Within the h, the tr. is the following: Minutes 0–5 silence, 5–10 carrier and seconds pulses, 10–15 silence, 15–20 carrier and seconds pulses, 20–25 silence, 25–30 carrier and seconds pulses, 30–35 silence, 35–40 carrier and seconds, 40–45 silence, 45–50 carrier and seconds, 50–60 silence.

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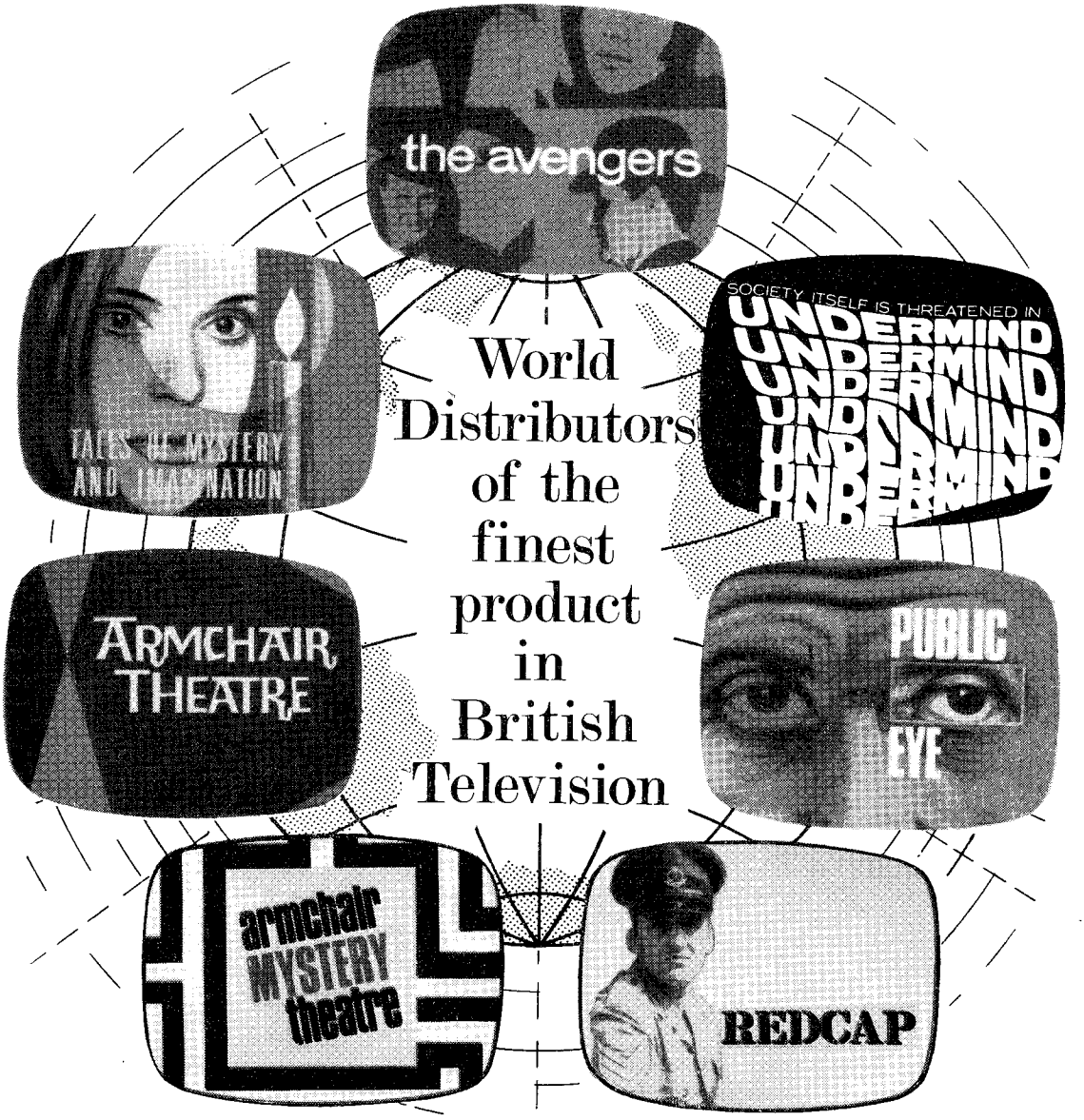
Associated British - Pathe



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A great help for the novice, an aid for the veteran, a reference book for the expert. The articles, all written by experts, cover a wide-ranging field. The titles of some of the chapters will certify this: All frequency bands and their use ... The Ionosphere conditions, variations and disturbances ... Introduction to World listening ... All the problems connected with Short Wave listening — and how to overcome them ... The most suitable meter bands ... How to listen to the amateurs ... to the Satellites ... to the Standard Frequency and Time Signal Broadcasts. How to identify stations ... what to listen for — and how to report to stations ... Transmissions in English hour by hour, directed to the different areas of the World.
How to build: Antennas and transistorized equipment as Beat Frequency Oscillator, Q-Multiplier, Noise Limiter, Pre-Selector, Antenna Tuning Unit and Crystal Calibrator.
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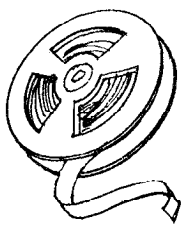
... and LISTEN!

BROADCASTING IDENTIFICATION TAPE

... B.I.T.



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WORLD PUBLICATIONS

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MORE INFORMATION on page 149

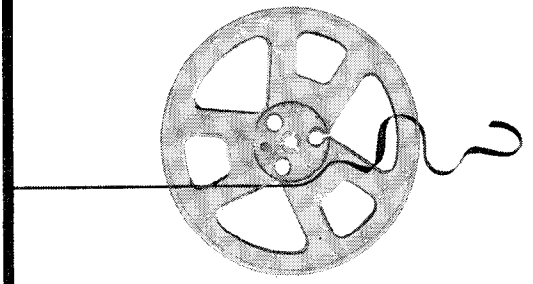
DX-PROGRAMMES

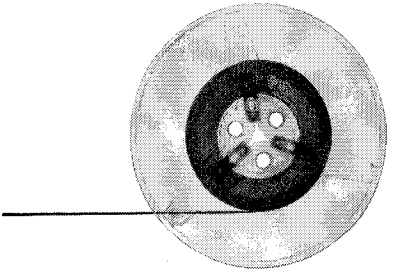
All programmes in **English** exc. where indicated.
AUSTRALIA: R. Australia: "Australian DX'ers calling" Sat 19.00, 22.00, Sun 05.00, 07.15 (Apr–Oct), 09.00 (Oct–Apr), 13.00, 15.30, Mon 02.15. **Japanese:** "DX-Time": Sun 10.45. **R. St. 3 NE,** "World at your fingertips" Sun 12.30.
BULGARIA: R. Sofia: Fri 19.30, 21.30, Sat 00.00, 04.00. **German:** 1st & 3rd Sun 20.00. **French:** 1st Sun 21.00. **Spanish:** 2nd Thurs of the month at 22.30, Fri 00.00.
CANADA: Canadian Broadc. Corpo: "R. Canada Shortwave Club": Sat 12.35, 18.35, 21.30, 23.20, Sun 07.50. **German:** Sun 18.00. **French:** Sat 19.50, 20.35.
CZECHOSLOVAKIA: R. Praha: "Around the World": 1st and 3rd Mon 19.00, 22.00. For No. America: On alternate Fri 01.00 & 03.30. For Far East & Australia second Fri 07.00. **German:** 1st Thurs at 19.00. For Austria: Every 3rd Sun at 09.30, repeated following Tues 17.05.
DENMARK: Voice of Denmark: Tues 19.20, 20.35, Wed 02.20, 12.50, Thurs 09.50, 15.20.
FINLAND: Finnish Broadcasting Co: Fri 16.00, 21.00, Sat 12.15.
ECUADOR: The Voice of the Andes: "DX Party Line" 1st and 3rd Mon 02.30, 1st and 3rd Wed 09.30.
GERMANY: Deutsche Welle: 2nd Mon/Tues 09.15, 15.20, 18.30, 19.45, 01.00, 02.30, 04.15, 05.30. **Sender Freies Berlin:** "Kurzwellenbummel" 2nd Sat 21.25 (prgr. II), 22.45 (prgr. I) – **R. Berlin International:** Sat 12.20, 14.20, Sun 07.20. Mon (fortnightly) in all English tr's to Africa. In **Swedish:** Sat 17.00, 19.45.
HAITI: R. 4 VEH: "DX-Corner" Fri 12.15.
HOLLAND: R. Nederland Wereldomroep: Thurs 07.42, 14.42, 19.42, 20.42, 21.42, Fri 01.42.
HUNGARY: R. Budapest: Tues 19.30, Sun 22.00, 23.30, Wed, Mon 00.30, 03.00.
JAPAN: R. Japan: "DX-News" every 4th Sat/Sun at 10.15, 15.45, 17.55, 19.25, 00.45, 08.15, 13.00, 15.45.
KOREA (Rep): KBS: Last Thurs at 03.15, 05.15, 06.45, 10.45, 15.45, 21.15.
MONACO: Norea Radio via Trans World Radio: "Oss lyttere imellom" in Norwegian every last Fri of the month 17.00 (produced by DX-Listeners Club, Norway).
NEW ZEALAND: R. New Zealand: "Arthur Cushens DX-World": 1st Wed 06.40, 10.30+following Sun 01.00.
POLAND: Polskie Radio: 2nd Fri 18.30 and following Mon 21.30. **Swedish:** Thurs 17.30, 21.30. **Danish:** Wed fortnightly 16.30, 19.30.
PORTUGAL: Emissora Nacional: "R. Portugal DX-Club": Every 2nd Fri/Sat 14.00, 18.30, 20.30, 23.00, 02.15, 03.15, 04.00, 07.45 08.30.
RUMANIA: R. Bucharest: Every Wed, Fri 01.30, 03.00, 19.30, 22.30.
SWEDEN: R. Sweden: "Sweden Calling DX'ers" as last part of English tr's: Tues 11.00, 12.30, 14.00, 14.45, 16.15, 19.45, 22.00, 23.30, Wed 01.45, 03.15. Every Wed in German 10.00, 19.15, 21.30, 23.00. Every Tues in French 09.30, 16.15, 17.45, 20.30, 21.45, 23.30.
SWITZERLAND: Swiss Shortwave Service: "Swiss Short-wave Merry-Go-Round": Sat/Sun (in all English tr's) 07.30, 09.19, 12.15, 14.00, 15.15, 16.15, 02.15, 05.19.
USA: R. New York Worldwide: "DX-ing Worldwide": Fri 23.30, Sat 19.00. In **Spanish:** Thurs 13.45.

ESPERANTO

AUSTRIA: Osterreischer Rundfunk: Vienna II Tues 16.50–17.00.
BRAZIL: R. Clube Teresina, Teresina: Sun 21.30–21.45 – **R. Ministerio da Educacao,** Rio de Janeiro: Wed. 17.45–18.00 – **R. Roquete Pinto,** Rio de Janeiro: Sat 09.45–10.00.
BULGARIA: R. Sofia: Sun 20.05–20.30, 23.30–23.55.
CZECHOSLOVAKIA: R. Prague: Last Thurs 17.50.
GUATEMALA: La Voz de Guatemala: Sat 16.00–16.30.
HOLLAND: Hilversum II: Fri 22.45–22.55, first Mon 22.40–22.55.
ITALY: RAI, Rome: Sun 16.35–16.50.
NEW ZEALAND: R. New Zealand: Thurs 08.30–08.40, 11.30–11.40.
PEOPLES REP. OF CHINA: R. Peking: Sat/Sun 11.00–11.30, 12.30–13.00; Fri/Sun 20.00–20.30.
POLAND: Polskie Radio, Warsaw: D 15.30–16.00. **Gdansk:** Wed 06.20–06.35.
SPAIN: La Voz de Levante, Valencia: Mon 22.45–23.00 – **R. Valladolid,** Valladolid: Tues 14.45–15.00 – **R. Bilbao,** Bilbao: Wed 23.30–23.55.
YUGOSLAVIA: R. Beograd & R. Zagreb: Thurs 23.05–23.20.

THE DANISH SHORT WAVE CLUB INTERNATIONAL, P. O. Box 102, Vejlby-Risskov, Denmark, publishes "SHORTWAVE NEWS" (intern) and "KORTBØLGENYT" for Scandinavia (excl. July). Membership fee per year: D.Kr. 18.00, $ 3.00, £ 0/19/0, 25 IRC; airmail extra $ 2.25. Payment to C. E. Engelbrechtsen. P. O. Box 102, Vejlby-Risskov, Denmark.

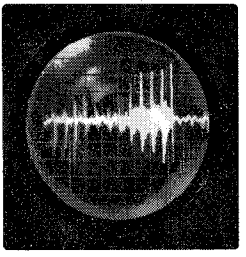




PROBLEM: SLOW THREADING

SOLUTION: THIS NEW 3M SELF-THREADING TAPE REEL

Simply lay tape inside reel and start recorder. Reel threads itself automatically. No hooks, no slots. Solid sides protect tape against damage. "Scotch" Brand 7" Self-Threading Reel has a snap-tight plastic cover for dust-proof storing without a box.



PROBLEM: TOO MUCH NOISE

SOLUTION: NEW 3M LOW NOISE RECORDING TAPES

New "Scotch" Brand Tapes (available in both acetate and polyester) increase signal-to-noise ratio 3db to 6db over conventional tapes. Improve high frequency response. Wear 15 times longer. Save tape because they operate at half your normal recording speed with no loss in fidelity.

Scotch® BRAND TAPES AND REELS are among scores of 3M audio-video advances. More information? Write: 3M, Minnesota Mining & Manufacturing Co., International Division, Box 3800, St. Paul 1, Minnesota, U.S.A. Dept. WRT

3M International Division
MINNESOTA MINING & MANUFACTURING CO.

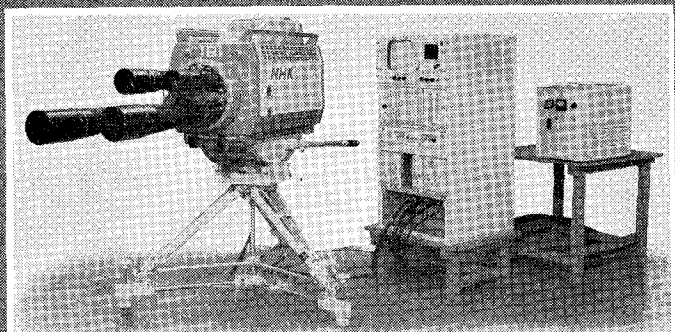
NEWS IN ENGLISH *in the Foreign Services of shortwave stations*

Abbreviations see page 74 : * = News summaries – [1] = Sun only – [2] = Sat – [3] = Tues, Thurs, Sat – [4] = Mon–Fri – [5] = Mon. only – [6] = Tues–Sat – [7] = Mon, Wed, Fri – [8] = W. only

00.00 AFRTS
Albania
BBC
Japan
Malaysia
Moscow
Norway[5]
Sofia
VOA
00.15 R. Australia
00.20 R. Nederland[8]
00.30 AIR
Budapest
Pakistan
01.00 Malaysia
R. New Zealand
AFRTS
4VEH
Japan
Moscow
Prague
RBI
Rome
RNE
CBC
VOA
SBC
01.30 R. Australia
Bucharest
Budapest
R. Nederland[8]
FEBC
01.32 DW
01.45 Sweden
02.00 AFRTS
BBC
CBC[6]
Denmark
Japan
Lisbon
R. Ceylon
RNE
VOA
Moscow
02.30 R. Australia
RBI
Moscow
02.45 AFRTS
02.53 BCC
02.55 FEBC[1]
03.00 BBC
Bucharest
Budapest
Cuba
Ghana
Japan
Lisbon
Moscow
RNE
Seoul
VOA
03.02 Argentina
DW
03.15 Sweden
03.23 BCC
03.30 R. Australia
CBC[1]
Budapest
Ghana
Prague
Bonaire
03.45 Lisbon
RBI
04.00 R. Australia
BBC
CBC
FEBC[1]
Japan
04.00 Moscow
Norway[5]
Pyongyang
Sofia
VOA
04.15 SBC
04.25 R. Thailand
04.30 AIR
R. Australia
Bucharest
Budapest
Ghana
VOA
04.32 DW
04.45 RBI
04.47 KGEI[6]
05.00 R Australia
BBC
DW
CBC
Cuba
Hanoi
Japan
Moscow
Seoul
VOA
05.15 Brazzaville
05.30 Japan
BBC
VOA
05.45 BBC
UN Radio
06.00 R. Australia
AFRTS
BBC
CBC
ELWA
Ghana
Japan
Malaysia
Moscow
VOA
06.02 Argentina
06.15 RBI
Brazzaville
06.30 Cairo
Albania
FEBC[1]
VOA
Seoul
UN Radio
06.32 DW
06.45 Ghana
06.47 DW
06.52 UN Radio
07.00 R. Australia
AFRTS
BBC
CBC
ELWA
Ghana
Japan
Moscow
Prague
RBI
R. New Zealand
SBC
VOA
UN Radio
07.20 R. Ceylon
AFRTS
07.30 Malaysia
R. Nederland[8]
Lisbon
Warsaw
07.31 CBC
08.00 Japan
08.15 R. New Zealand[1]
08.30 Pakistan
Seoul
Warsaw
08.45 R. Australia
SBC
08.47 DW
09.00 R. Australia
Japan
FEBC
VOA
09.15 BBC
09.30 Denmark[3]
Japan
09.35 R. Ceylon
10.00 R. Australia
Moscow
Japan
R. New Zealand
VOA
10.01 AIR
10.10 Un Radio
10.17 DW
10.22 BCC
10.30 Seoul
R. Thailand
11.00 R. Australia
AFRTS
BBC
Brazzaville
CBC
ELWA
FEBC
Japan
SABC
Sweden[4]
Bonaire
VOA
11.15 RRI
11.30 Moscow
Malaysia
11.45 FEBC
SBC
12.00 R. Australia
AFRTS
CBC
Japan
Moscow
Norway[1]
Prague
RBI
Rome
Warsaw
Sweden
Tashkent
VOA
4VEH
12.16 CBC
12.17 DW
12.30 Denmark
Japan
Moscow
Bonaire
12.55 WRUL[2 4]
FEBC
13.00 R. Australia
AFRTS
Brazzaville
BBC
Hanoi
Japan
Moscow
R. Ceylon
Warsaw
VOA
13.15 ETLF
RBI
13.30 Hanoi
Cairo
13.30 ETLF
Ghana
SBC
Moscow
13.31 AIR
13.35 Pakistan
13.45 Cairo
Lisbon
13.55 WRUL*
14.00 R. Australia
AFRTS
BBC
Ghana
Japan
Kabul
Malaysia
Norway[1]
Prague[1]
Pyongyang
RBI
SABC[7]
Sweden
Tashkent
VOA
14.02 HCJB
Ankara
14.20 Mongolia[6]
14.30 R. Nederland[8]
Moscow
14.45 Ghana
RRI
Sweden
14.55 WRUL[4]
15.00 R. Australia
AFRTS
Bucharest
Denmark
Ghana
Nigeria
Japan
VOA
15.03 SBC
15.10 Japan
15.12 DW
15.15 Japan
SBC
15.16 CBC
15.30 FEBC
Hanoi
Prague
RBI
Moscow
Malaysia
Seoul
Belgrad
15.42 BCC
15.45 ETLF
15.47 DW
15.52 DW
15.55 WRUL*
15.57 DW
16.00 R. Australia
AFRTS
BBC
Ghana
Japan
Norway[1]
RBI
SABC[1 2]
VOA
16.15 Sweden
ETLF
16.30 SABC
16.32 CBC
16.45 Ghana
16.55 WRUL[2 3]
17.00 R. Australia
AFRTS
17.00 ELWA
Japan
Ghana
Nigeria
Syria
WRUL[1]
VOA
WINB
17.15 BBC
R. Thailand
17.25 Japan
17.30 RBI
Prague
Moscow
17.45 Cairo
17.47 DW
17.55 WRUL*
18.00 R. Australia
AFRTS
BBC
ETLF
Ghana
Japan
Norway[1]
VOA
18.05 UN Radio
18.15 Ghana
18.30 Abidjan
Belgrad
Moscow
Warsaw
18.33 CBC
18.40 AIR
Tanzania
18.55 WRUL[4]
19.00 R. Australia
AFRTS
Denmark
Nederland[8]
ETLF
Japan
Moscow
Prague
Pyongyang
SABC
SBC
Warsaw
VOA
19.05 Sofia
19.15 RRI
Brazzaville
19.22 UN Radio
19.30 Bucharest
Budapest
Sofia
Warsaw
Moscow
19.45 Sweden
Pakistan
19.46 AIR
19.55 WRUL*
20.00 R. Australia
AFRTS
Albania
BBC
Ghana
Iran
Japan
Nederland[8]
Norway[1]
Moscow
VOA
20.05 WINB
20.10 Cuba
20.15 Denmark
RBI
Lisbon
20.20 RNE
20.20 Rome
20.30 Warsaw
Moscow
20.44 Israel
20.45 Cairo
Ghana
20.50 Cuba
20.55 WRUL[4]
21.00 R. Australia
AFRTS
Baghdad
BBC
Bucharest
CBC
Ghana
Moscow
Japan
Nederland[8]
Nigeria
Seoul
VOA
WRUL[2]
21.05 Sofia
21.12 DW
21.15 Rome
21.30 Ghana
Cairo
Mongolia[4]
Moscow
Sofia
Warsaw
VOA
WINB
21.37 CBC
21.45 R. Australia
21.55 WRUL[4]
22.00 AFRTS
Albania
Algeria
BBC
Belgrad
Budapest
CBC
Ankara
Ghana
Japan
Moscow
RBI
Warsaw
VOA
22.05 Rome*
22.15 VOA
22.30 BBC
Warsaw
Bucharest
KGEI[4]
22.45 R. Australia
22.55 WRUL[4]
23.00 AFRTS
BBC
Malaysia
Moscow
Japan
Pyongyang
Sweden
WRUL[3]
23.01 CBC
23.02 Argentina
23.30 R. Australia
Budapest
FEBC
23.32 HCJB
23.55 WRUL*

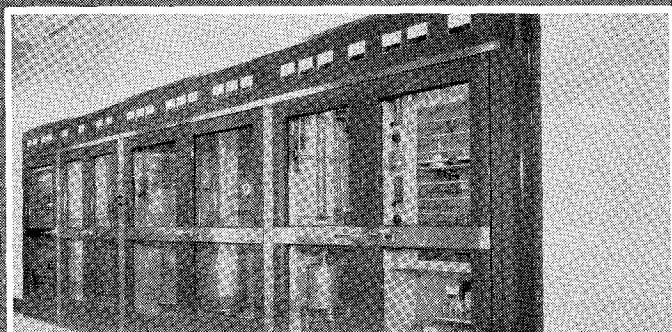
Toshiba BROADCASTING EQUIPMENT

engineered for size reduction and high performance



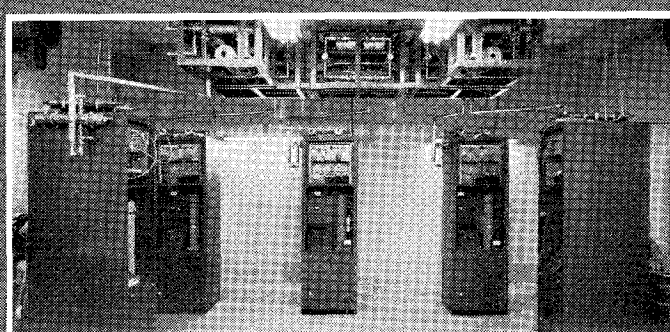
SEPARATE-LUMINANCE TWO-IMAGE-ORTHICON COLOR CAMERA

This all-transistorized luminance-tube chrominance-tube camera, using a striped four-color filter for the chrominance orthicon, amply proved its efficacy and utility in the color televising of the 1964 Olympic Games in Tokyo.



UHF SATELLITE BROADCAST EQUIPMENT
(100-watt video and 25-watt audio output)

With but one powerful traveling-wave tube in the output stage to take place of several cavity resonance output stages of conventional UHF transmitters, this Toshiba equipment substantially reduces the size of TV satellite stations to be spotted in hard-to-receive areas.



100-kW MEDIUM-FREQUENCY (STANDARD RADIO) BROADCAST EQUIPMENT (vapor cooled)

The vapor cooling system of this medium-frequency transmitter eliminates many accessories, including blowers, pumps and the like used in conventional cooling systems and does away with the noise coming from these accessories, resulting in a compact and quiet transmitter installation.

Tokyo Shibaura Electric Co., Ltd.

For information: TOSHIBA International Division
Uchisaiwaicho, Tokyo

Toshiba
QUALITY SINCE 1875

SET COUNT BY COUNTRY

*) Country with comm. radio and/or comm. television.

Country	Po.	R.Rcvrs.	TV Rcvrs.
*Aden (Fed. of So. Arabia)	200.000	200.000	10.000
Afghanistan	12.000.000	40.000	—
Albania	1.840.000	130.000	1.000
Algeria	10.785.000	250.000	150.000
*Andorra	12.500	3.500	—
*Angola	4.650.000	80.000	—
*Argentina	21.930.000	5.800.000	1.650.000
*Australia	11.362.000	2.357.642	2.044.625
Austria	7.067.432	2.137.153	635.677
*Azores	350.000	40.000	—
*Bahamas	140.000	35.000	—
Bahrain	170.000	36.000	—
*Barbados	250.000	43.000[1]	4.500
Basutoland	900.000	25.000	—
Bechuanaland	500.000	4.000	—
Belgium	9.450.000	3.080.174	1.382.409
*Bermuda	57.000	28.000	17.000
*Bolivia	3.300.000	525.000	—
*Brazil	82.000.000	24.056.700	4.200.000
Brunei	100.000	7.000	—
Bulgaria	8.120.000	2.031.259	150.000
Burma	24.200.000	256.852	—
Burundi	2.600.000	50.000	—
Cambodia	6.000.000	300.000	6.000
Cameroon	4.500.000	115.000	—
*Canada	19.900.000	4.690.000a)	5.100.000
*Canary Islands	1.250.000	130.000	2.000
*Cape Verde Isl.	201.549	3.675	—
C. African Rep.	1.250.000	30.000	—
*Ceylon	10.624.507	418.900	—
Chad	3.000.000	20.000	—
*Chile	8.518.000	1.350.000	50.000
*Colombia	17.000.000	2.000.000	270.000
Comores Islands	201.000	3.600	—
Congo (Brazzaville)	1.000.000	80.000	1.500
Congo Rep.	14.000.000	200.000	—
*Costa Rica	1.336.274	130.000	28.690
Cuba	7.203.000	1.275.000	550.000
*Cyprus	594.000	127.067	11.659
Czechoslovakia	14.160.000	3.732.157	2.055.089
Dahomey	2.500.000	35.000	—
Denmark	4.600.000	392.549	1.063.323
*Dominican Rep.	4.000.000	120.000	50.000
*Ecuador	4.560.000	510.000	35.000
*El Salvador	2.811.000	396.000	27.000
Ethiopia	21.000.000	300.000	2000
Faroe Isl.	36.000	9.200	—
*Fiji	430.000	35.000	—
Finland	4.611.128	1.509.325	688.689
France	48.699.000	9.132.346	6.118.321
Gabon	500.000	36.000	1.200
*Germany, Fed. Rep.	58.819.000	17.692.751	10.754.942
Germany, Dem. Rep.	17.011.931	5.752.548	2.800.000
Ghana	7.000.000	505.000	1.000
*Gibraltar	25.000	3.804	4.500
Gilbert & Ellice Isl.	47.000	1.500	—
*Great Britain	53.301.000	2.766.874	13.358.003
Greece	8.500.000	830.000	500
Greenland	35.500	6.000	—
Guadeloupe	288.000	10.000	—
*Guatemala	4.098.000	75.000	46.200
*Guiana, Br.	603.000	123.000	—
Guiana, Fr.	33.000	2.000	—
Guinea Rep.	4.010.000	75.000	—
Guinea, Port.	550.000	4.321	—
*Guinea, Sp.	220.000	5.000	—
*Haiti	4.450.000	63.000	5.500
Holland	12.210.000	3.091.664	2.043.024
Honduras, Br.	100.000	6.500	—
*Honduras, Rep.	2.010.000	135.000	7.800
*Hong Kong	3.800.000	700.000	46.000
Hungary	12.000.000	2.500.000	783.453
Iceland	190.230	58.119	500
India	440.000.000	4.315.242	2.000
Indonesia	96.000.000	600.000	40.000
*Iran	22.523.039	1.600.000	100.250
Iraq	6.800.000	500.000	175.000
Ireland	2.840.000	548.000	350.000
Israel	2.574.000	450.000	—
Italy	52.688.000	10.455.190	5.844.125
Ivory Coast	3.600.000	60.000	2.000
*Jamaica	1.744.661	350.000	26.000
*Japan	97.960.000	19.982.835a	17.502.542
Jordan	1.935.440	269.000	—
Kenya	8.900.000	350.000	11.500
*Korea Rep.	27.763.000	1.379.934	50.000
Kuwait	467.789	80.000	30.000
Laos	4.000.000	50.000	—
*Lebanon	2.000.000	275.000	135.000
*Leeward Isl.	13.600	4.600	1.000
*Liberia	2.100.000	130.000	2.500
Libya	1.500.000	50.000	—
*Luxembourg	350.000	118.918	28.552
*Macau	200.000	5.561	—
Malagasy Rep.	6.200.000	260.000	—
Malawi	4.019.000	75.000	—
Malaysia (Malaya)	7.500.000	322.123	114.000
Mali	4.500.000	20.000	—
*Malta	326.130	69.000[2]	29.000
*Mariana Isl. (Guam)	70.000	30.000	18.000
Martinique	320.000	17.500	100
Mauritania	1.000.000	15.000	—
*Mauritius	750.000	120.000	4.000
*Mexico	39.000.000	4.600.000	1.800.000
*Monaco	22.300	6.300	15.000
Morocco	12.500.000	700.000	26.000
*Mozambique	6.593.000	51.230	—
Nepal	9.500.000	40.000	—
*Neth. Antilles	207.000	100.000	20.500
New Caledonia	87.000	14.473	100
New Zealand	2.640.117	644.298	352.076
*Nicaragua	1.700.000	100.000	6.300
Niger	3.000.000	45.000	—
*Nigeria	52.000.000	500.000	30.000
Norway	3.700.000	1.095.257	459.708
Pakistan	98.612.000	871.000	1.750
*Panama	1.226.930	500.000	100.000
*Paraguay	1.700.000	105.000	—
P. R. of China	650.000.000	8.000.000	100.000
*Peru	10.365.000	2.000.000	215.000
*Philippines	30.241.000	1.225.000	200.000
Poland	31.495.900	5.672.344	1.871.105
*Portugal	8.900.000	1.151.133	170.551
*Puerto Rico	2.349.544	380.000	320.000
Reunion	357.000	45.000	2.000
Rhodesia	4.136.800	80.000	39.000
Rumania	18.600.000	2.723.008	414.101
*Ryukyu Isl.	937.000	235.229	123.242
Sabah (Malaysia)	506.628	32.193	—
*Samoa	144.000	14.000	800
*São Tome	64.000	1.885	—
Sarawak (Malaysia)	800.000	50.000	—
Saudi Arabia	7.000.000	40.000	30.000
Senegal	3.400.000	150.000	1.000
Seychelles	46.512	1.500	—
Sierra Leone	2.250.000	120.000	1.050
Singapore	1.800.000	90.000	47.000
Solomon Isl.	133.000	1.100	—
Somalia	2.200.000	35.000	—
Somaliland Fr.	76.000	4.000	—
*So. Africa	16.750.000	2.600.000	—
*Spain	31.500.000	4.550.000	1.500.000
Sudan	12.150.000	600.000	7.000
*Surinam	310.000	40.000	—
Sweden	7.694.987	2.949.953	2.049.104
Switzerland	6.000.000	1.644.157	583.123
Syria	5.251.000	260.000	40.000
Tahiti	84.000	22.000	500
*Taiwan	12.429.083	1.270.126	45.661
Tanzania	10.000.000	115.000	—
*Thailand	30.000.000	1.610 000	250.000
Timor	517.200	1.350	—
*Trinidad & Tobago	989.800	165.000	28.500
Togo	1.600.000	30.300	—
Tonga	68.000	4.000	—
Tunisia	4.500.000	370.000	500
Turk & Caicos Isl.	6.000	1.000	—
Turkey	30.000.000	2.177.163	1.600
*Uganda	6.800.000	200.000	5.300
United Arab Rep. (Egypt)	30.000.000	3.500.000	422.200
*United States	191.334.000	230.000.000	68.200.000
Upper Volta	4.500.000	50.000	1.000
*Uruguay	2.750.000	900.000	175.000
USSR	220.000.000	61.500.000	12.000.000
*Venezuela	8.256.000	1.660.000	425.000
Vietnam Rep.	14.000.000	150.000	—
*Virgin Isl. (American)	32.099	25.000	6.500
*Windward Isl	350.000	20.000	—
Yugoslavia	19.506.000	2.662.920	487.756
Zambia	3.650.000	77.000	11.118
Zanzibar (Tanzania)	300.000	5.000	—

a) Radio Homes.

[1] incl. 25.000 loudspeakers.

[2] incl. 44.000 Rediff. sets.

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** Ethiopia (E. B. S.)	Radio and Television
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Nigeria (N.B.C.)	* Radio
** Sierra Leone (S.L.B.S. & S.L.T.V.)	Radio and Television
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WORLD TIME IN ALL COUNTRIES

DIFFERENCE BETWEEN LOCAL TIME AND GREENWICH MEAN TIME

The differences marked + indicate the number of hours ahead of G. M. T. Differences marked — indicate number of hours behind G.M.T.

	Normal clock Time	Summer Time
Aden	+3	+3
Afghanistan	+4½	+4½
Alaska[1]	−8	−8
Albania	+1	+1
Algeria	GMT	GMT
Andorra	+1	+1
Angola	+1	+1
Argentina	−4	−3 (Oct-Feb)
Ascencion Isl.	GMT	GMT
Australia		
a) Victoria New South Wales, Queensland, Tasmania,	+10	+10
b) N. Territory S. Australia	+9½	+9½
c) W. Australia	+8	+8
Austria	+1	+1
Azores	−2	−1 ¼-1/10
Bahamas	−5	−5
Bahrain	+4	+4
Barbados(W.I.)	−4	−4
Basutoland	+2	+2
Bechuanaland	+2	+2
Belgium	+1	+1
Bermuda	−4	−4
Bolivia	−4	−4
Brazil		
a) Eastern and Coastal.	−3	−2a
b) Manaos	−4	−3a
c) Acre	−5	−4a
Brunei	+8	+8
Bulgaria	+2	+2
Burma	+6½	+6½
Burundi	+2	+2
Cambodia	+7	+7
Cameroon	+1	+1
Canada		
a) New Foundland	−3½	−2½
b) Atlantic (Labrador, Nova Scotia)	−4	−3
c) Eastern (Ontario) Quebec*	−5	−4
d) Central (Manitoba)	−6	−5
e) Mountain (Alberta)	−7	−6
f) Pacific (Br. Columbia)	−8	−7
g) Yukon	−9	−8
Canary Islands	GMT	GMT
Cape Verde Isl.	−2	−2
Central African Rep.	+1	+1
Ceylon	+5½	+5½
Chad	+1	+1
Chile	−4	−4
China		
Peoples Rep.	+8	+8
Shanghai	+8	+8
Canton	+8	+8
Lhasa	+6	+6
Urumchi	+6	+6
Taipei	+8	+9
Colombia	−5	−5
Comores Isl.	+3	+3
Congo, Rep.		
Leopoldville	+1	+1
Elisabethville	+2	+2
Congo (Brazzaville)	+1	+1
Cook Isl.	−10½	−10½
Costa Rica	−6	−6
Cuba (W.I.)	−5	−4
Curacao	−4	−4
Cyprus	+2	+2
Czechoslovakia	+1	+1
Dahomey	+1	+1
Denmark	+1	+1
Dominican Rep.	−5	−4
Ecuador	−5	−5
Egypt	+2	+3
El Salvador	−6	−6
Ethiopia	+3	+3
Falkland Islands	−4	−3
Faroe Islands	GMT	GMT
Fiji Islands	+12	+12
Finland	+2	+2
France	+1	+1
Gabon	+1	+1
Gambia	GMT	GMT
Germany	+1	+1
Ghana	GMT	GMT
Gibraltar	+1	+1
Gilbert Isl.	+12	+12
Great Britain	GMT	+1
Greece	+2	+2
Greenland	−3	−3
Guadeloupe	−4	−4
Guam	+10	+10
Guatemala	−6	−6
Guiana (British)	−3¾	−3¾
Guiana (French)	−4	−4
Guinea	GMT	GMT
Guinea (Port.)	−1	−1
Guinea (Sp.)	+1	+1
Haiti (W.I.)	−5	−5
Hawaii	−10	−10
Holland	+1	+1
Honduras(Rep.)	−5	−6
Honduras (Brit.)	−5½	−6
Hong Kong	+8	+9
Hungary	+1	+1
Iceland	−1	GMT
India	+5½	+5½
Indonesia		
a)North Sumatra	+6½	+6½
b)South –	+7	+7
c)Java, Borneo, Bali	+7½	+7½
d)Celebes	+8	+8
e)West Irian	+9	+9
Iran (Persia)	+3½	+3½
Iraq	+3	+3
Ireland (Eire)	GMT	+1
Israel	+2	+2
Italy	+1	+2
Ivory Coast	GMT	GMT
Jamaica (W.I.)	−5	−5
Japan	+9	+9
Jordan	+2	+2
Kenya	+3	+3
Korea, Rep.	+9	+9
Korea,Dem.Rep.	+9	+9
Kuwait	+3	+3
Laos	+7	+7
Lebanon	+2	+3
Leeward Isl.	−4	−4
Liberia	−¾	−¾
Libya	+2	+2
Luxembourg	+1	+1
Macau	+8	+8
Madeira	−1	GMT ¼-1/10
Malawi	+2	+2
Malaya	+7½	+7½
Malagasy Rep.	+3	+3
Maldive Isl.	+5½	+5½
Mali	GMT	GMT
Malta	+1	+1
Marshall Isl.	+12	+12
Martinique	−4	−4
Mauretania	GMT	GMT
Mauritius	+4	+4
Mexico[3]	−6	−6
Monaco	+1	+1
Mongolia	+8	+8
Morocco	GMT	GMT
Mozambique	+2	+2
Nepal	+5.40	+5.40
Neth. Antilles	−4	−4
New Caledonia	+11	+11
New Guinea	+10	+10
New Hebrides	+11	+11
New Zealand	+12	+12
Nicaragua	−6	−6
Niger	+1	+1
Nigeria	+1	+1
Norfolk Isl.	+11½	+11½
Norway	+1	+1
Pakistan		
a) West	+5	+5
b) East	+6	+6
Panama	−5	−5
Papua	+10	+10
Paraguay	−4	−4
Peru	−5	−5
Philippines	+8	+8
Poland	+1	+1
Portugal	GMT	+1
Puert.Rico(W.I.)	−4	−4
Reunion	+4	+4
Rhodesia	+2	+2
Rumania	+2	+2
Rwanda	+2	+2
Ryukyu Isl.	+9	+9
Sabah (Fed of Malaysia)	+8	+8
Sahara (Sp.)	GMT	GMT
Samoa Isl.	−11	−11
S. Pierre	−3	−3
S. Tomé	GMT	GMT
Sarawak	+8	+8
Saudi Arabia	+3[3]	+3[3]
Senegal	GMT	GMT
Seychelles	+4	+4
Sierra Leone	GMT	GMT
Singapore	+7½	+7½
Solomon Isl.	+11	+11
Somalia	+3	+3
Somali (French)	+3	+3
So. Africa	+2	+2
Spain	+1	+1
Sudan	+2	+2
Surinam	−3½	−3½
Swan Islands	−6	−6
Swaziland	+2	+2
Sweden	+1	+1
Switzerland	+1	+1
Syria	+2	+2
Tahiti	−10	−10
Tanzania	+3	+3
Tasmania	+10	+10
Thailand	+7	+7
Timor	+8	+8
Togo	GMT	GMT
Tonga Islands	+13	+13
Trinidad(B.W.I.)	−4	−4
Tunisia	+1	+1
Turk&CaicosIsl	−5	−5
Turkey	+2	+2
Uganda	+3	+3
Upper Volta	GMT	GMT
Uruguay	−3	−3
U.S.S.R.		
Moscow, Leningrad	+3	+3
Baku	+4	+4
Sverdlovsk	+5	+5
Tashkent	+6	+6
Novosibirsk	+7	+7
Irkutsk	+8	+8
Yakutsk	+9	+9
Khabarovsk	+10	+10
Magadan	+11	+11
Petropavlovsk	+12	+12
Anadyr	+13	+13
U.S.A.		
a) Eastern Zone	−5	−4
b) Central Zone	−6	−5
c) MountainZone	−7	−6
d) Pacific Zone	−8	−7
Vatican	+1	+1
Venezuela	−4	−4
Vietnam (Rep.)	+8	+8
Vietnam (Dem. Rep.)	+7	+7
Virgin Isl.	−4	−4
West Papua	+9½	+9½
Windward Isl.	−4	−4
Yemen	+3	+3
Yugoslavia	+1	+1
Zambia	+2	+2

* exc. the watch shore and Gaspé regions: 5 h. behind GMT.
a) Dec-March,

1) a) Ketchikan to Skagway −8
b) Skagway to 141°W. long −9
c)141°W. long to 162°W. long −10
d) 162°W. long to Westernmost point (incl. Aleutians) −11

2) Generally −6
Lower Cal.
Pa. coast −7
No. part −8

3) Approx. (based on Sun Time)

TELESCO INTERNATIONAL CORPORATION

for broadcast equipment

CCA ELECTRONICS CORPORATION

AM and FM broadcast transmitters, antenna couplers, modulation and frequency monitors, AGC and limiting amplifiers, remote control for transmitters.

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Television studio and transmitting equipment including live and film camera chains optical multiplexers, slide projectors, sync generators, video switching systems including vertical interval type, studio automation systems, VHF - TV transmitters, microwave links and other items.

FAIRCHILD RECORDING EQUIPMENT CORPORATION

Monaural and stereo disk cutting systems including lathes, cutting heads, amplifiers; limiter, compressor, and power amplifiers; modular solid state amplifiers, preamplifiers, limiters, compressors, attenuators; integrated solid state speech input consoles; transcription turntables; reverberation generators.

ELECTRO-VOICE INCORPORATED

Broadcast and general purpose microphones, speakers and speaker systems.

CAPPS AND COMPANY INCORPORATED

Recording styli including heated types, condenser microphones.

CROWN INTERNATIONAL

Professional reel type magnetic tape recorders and reproducers, tape duplicator systems.

ROBINS INDUSTRIES CORPORATION

Tape splicers, tape erasers, phonograph and tape accessories.

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High frequency log periodic transmitting antennas of all types including fixed station and transportable, also rotatable types; conical monopole broadband vertical omnidirectional antennas, antenna support towers.

DISAN ENGINEERING CORPORATION

Portable and mobile VHF - FM program quality remote pickup links, UHF-FM multichannel program quality STL with optional facilities for remote control and remote logging, FM background music receivers including multiplex types.

TELESCO ALSO SUPPLIES

All necessary additional items such as: TV and FM antennas, transmission line, TV translators, etc.

TELESCO serves as world-wide sales representatives for leading manufacturers of radio and television broadcasting equipment. For technical and descriptive information concerning any of the products listed, contact TELESCO

the TELESCO INTERNATIONAL CORPORATION

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ABBREVIATIONS:

Addr. = Address
AD = Advertising
Adm. = Administration
Adv. = Advertisement
Ag. = Acting
Amat. = Amateurs
A.M. = Amplitude modulation
Ann. = Announcement
Ant. = Antenna
Approx. = Approximately
Apr. = April
Apt. = Apartado
Assoc. = Associate(ion)
Asst. = Assistant
Aug. = August
Av. = Avenue, Avenida
B.P. = Boite Postale
Br. = British
Broadc. = Broadcast(ing)
C = Central
Ca. = Calle
Cas. = Casilla
Ch. = Channel
Chmn. = Chairman
Ci. = Ciudad
Co. = Company
Comm. = Commercial
Contr. = Controller
Corp. = Corporation
C.P. = Caixa Postal
Cra = Carrera
c/s = Cycles per second
D = Daily
d. = Directional aerial
Dec. = December
Def. = Definition
Dem. = Democratic
Dept. = Department
Dep. = Deputy
Dir. = Director
Dir. Gen. = Director General
Div. = Division
DX = Long distance
E. = English
Ea. = East
E. by R. = English by Radio
Ed. = Edificio
Educ. = Education, Educational
Emis. = Emisora
Equip. = Equipment
Eng. = Engineer, Engineering
ERP = Effective radiated power
exc. = Except
Exec. = Executive
exp. = Experimental
Feb. = February
Fed. = Federal
F. = French
F.I. = Financing
Fi. = Finnish
Fl. = Flemish
F.M. = Frequency modulation
F.PL. = Future plans
For. Rel. = Foreign Relations
Fri = Friday
Freq. = Frequency
G. = German
Gen. Mgr. = General Manager
G.M.T. = Greenwich Mean Time
Gov. = Government
Gr. = Greek
h = Hour
H = Horizontal polarisation
Hqs. = Headquarters
I = Italian
incl. = including
Inf. = Information
Int. = International
Int. Sig. = Interval Signal
Isl. = Islands
Jan. = January
kc = Kilocycles
kW = Kilowatt
L.P. = Leading Personalities
L = Language
L.N. = Local News
L.L. = Language Lessons
L.T. = Local Time
Man. = Managing
Mgr. = Manager
Miss. = Missionary
Mon = Monday
m.b. = Meter band
Mbg. = Mailbag
MW. = Medium Wave
N. = News
Nac. = Nacional
Nat. = National
Net. = Network
nd = non directional antenna
No. = North
Nov. = November
OBV = Outside broadcast vehicles
occ. = Occasionally
Oct. = October
Org. = Organization
Pa. = Pacific
P. = Portuguese
Po. = Population
Pol. = Polarisation
P.R. = Peoples Republic
Pr. = Private
Prod. = Production
Pr.L. = Principal Languages
Pres. = President
Prgr. = Programme
Pub. = Publication
R = Radio
Rcvrs. = Receivers
Re. = Report
Rec. = Records
Red. = Rediffusion
Rdif. = Radiodiffusion
Reg. = Regional
Rel. = Relay(ing), Relations
Rlg. = Religious
Rep. = Republic
Rf. = Rundfunk
Rp. = Return postage required
Rus. = Russian
Sat = Saturday
Sce. = Service
sched. = Schedule
Secr. = Secretary
Sen = Senior
Sep. = September
So. = South
Soc. = Sociedad(e)
So. We. = South West
Sp. = Spanish
SSR = Sovjet Socialist Rep.
St. = Station
Str. = Street
Su. = Summer
Sun = Sunday
Superv. = Supervisor
SW. = Shortwave
Te. = Telephone
Techn = Technical
Terr. = Territory
Thurs = Thursday
Tr. = Transmitter
Trop. = Tropical
Tues = Tuesday
T.V. = Television
UHF = Ultra High Frequency
Univ. = University
V = Vertical polarisation
V. = Verification
VHF = Very High Frequency
W = Weekdays
We. = West
Wed = Wednesday
Wi. = Winter
Wrp. = Weather report

Abbreviations of broadcasting organizations, countries and firms
ABC = Australian Broadc. Comm – AFN = American Forces Network AFRTS = Armed Forces Radio and Television Sce – AIR = All India Radio – BBC = British Broadc. Corp – BBCFES = BBC Far Eastern Station – BCC = Broadcasting Corpo. of China – BFN = British Forces Network – BR = Bayrischer Rundfunk – BRT = Radiodiffusion Television Belge – CBC = Canadian Broadc. Corp – COPE = Cadena de Ondas Populares Espanola – DW = Deutsche Welle – FBS = Forces Broadc. Service – FCC = Federal Communications Commission – FEBC = Far East Broadc. Company – ITA = Independent Television Authority – NDR = Norddeutscher Rundfunk – N.H.K. = Nippon Hoso Kyokai – NZBS = New Zealand Broadc. Sce – OCORA = Office de Cooperation Radiophonique – RAE = Radiodifusion Argentina al Exterior – RAI = Radiotelevisione Italiana – RBI = R. Berlin International – REM = Red de Emisores del Movimiento – RFE = Radio Free Europe – RIAS = Rundfunk in Am. Sector – RNE = Radio Nacional de Espana – RRI = Radio Republik Indonesia – RTB = Radiodiffusion Television Belge – ORTF = Office de Radiodiffusion Television Francaise – SABC = So. African Broadc. Corp – SBC = Swiss Broadc. Co – SDR = Süddeutscher Rundfunk – SER = Sociedad Espanola de R.dif – SR = Saarländischer Rundfunk – SSS = Swiss Shortwave Service – SWF = Südwestfunk – VOA = Voice of America – WDR = Westdeutscher Rundfunk – WRUL = R. New York Worldwide – UN = United Nations.
Af = Africa – Am = America – Au = Australia – As = Asia – Br. G. = British Guiana – Co = Congo – Czech = Czechoslovak Socialist Rep – Eu = Europe – FE = Far East – ME = Middle East – NE = Near East – GB = Great Britain – G.D.R. = German Democratic Republic – Isl = Islands – N.Z. = New Zealand – UAR = United Arab. Republic – UK = United Kingdom of Gt. Britain – USA = United States of America – USSR = Union of the Soviet Socialist Republics.
Abbreviations of firms: AKG = Akustische und Kino-Geräte G.m.b.H, Vienna – AWA = Amalgamated Wireless Australia Ltd – CFTH = Compagnie Française Thomson Houston, Paris – CFS = Compagnie Generale de Telegraphie Sans Fil, Paris – GE = General Electric – L.G.T. = Laboratoire General des Telecommunications – NEC = Nippon Electric Company, Tokyo – RCA = Radio Corporation of America – STC = Standard Telephone & Cables Ltd – T.C.A. = Telecommunications of Australia – TRT = Télécommunications Radioélectriques et Téléphoniques, Paris.
Special Abbreviations for Shortwave Listeners:
Q-Codes: The following "Q" Codes, devised at the Cairo Convention of 1938, are used among shortwave enthusiasts listening to broadcasting stations (socalled DXers): QRG = Frequency; QRK = Readability; QRM = Interference (from other transmitters); QRN = Atmospheric interference (static); QRT = Close down; QSA = Signal strength; QSB = Fading; QSL = Verification (of reception); QTH = Location.
The following abbreviations are generally used in club publications: BC = broadcast; BCB = Broadcast band, i.e. medium wave band; CW = Continuous Wave, i.e. morse code; HF = High Frequency; ID = Station Identification; IRC = International Reply Coupon; LA = *Latin America*; mx = music; nx = news; OM = Old Man, a general term of greeting; rx = Receiver; SSB = Single Side Band; SWL = Shortwave Listeners; Tnx = Thanks; tr = Transmitter; 73's = Best Wishes.

SVERIGES RADIOKLUBB is the oldest DX-club in Sweden. We are publishers of "DX-RADIO", a printed bulletin mainly in Swedish language, appearing 11 times a year and featuring among others a complete list of SW-stations with a unique time-schedule arrangement. The service to our members includes our famous printed reception report forms in English-Spanish and French-Portuguese as well as a long range of other useful DX-requirements. Annual dues are Sw.Crs. 13.50 (US $ 2.60/ - 0/18/6). Write to SRK, Box 5083, Stockholm 5, Sweden for a free sample copy of "DX-RADIO" and further information.

Become a co-operator with the WRTH
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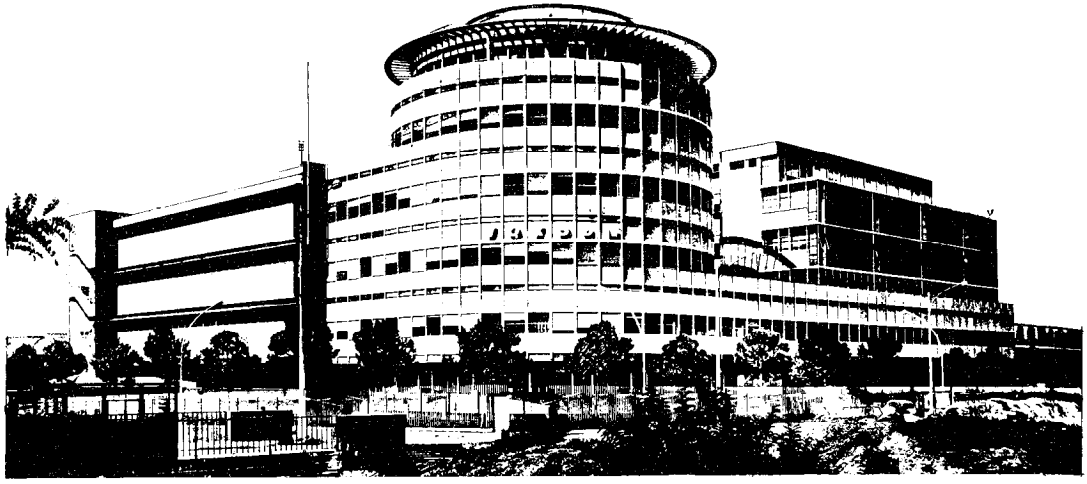

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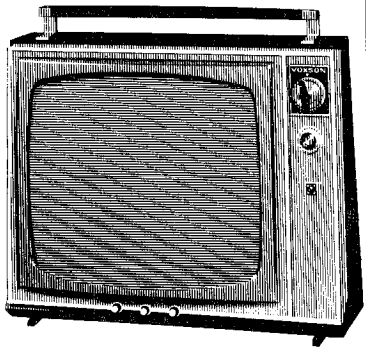
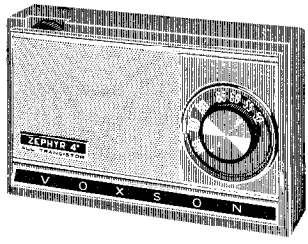
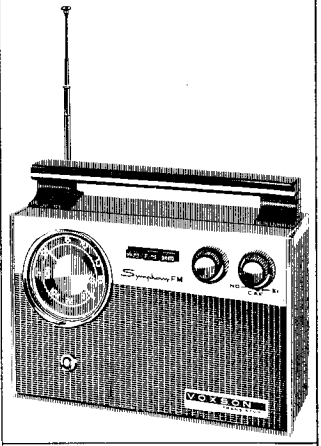
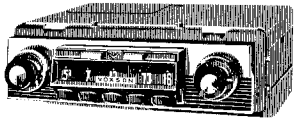








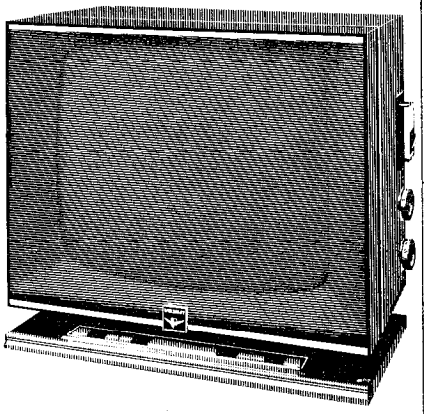


TABLE OF THE MOST SUITABLE MEGACYCLE BANDS, 1966

Prepared by Roger Legge,
International Frequency Management Service, Etlan, Virginia, U.S.A.

THE LISTENER'S AREA	LOCAL TIME	APPROX. GMT TIME	LOCATION OF TRANSMITTING STATION																								
			Jan./Febr., Nov./Dec. 1966								Mar./Apr., Sept./Oct. 1966								May–August 1966								
			Eu/No.Af.	N.Am.(E.)	N.Am.(W)	C./So.Am.	C./So.Af.	ME/So.As.	Ea.As.	Aus./NZ.	Eu/No.Af.	N.Am.(E)	N.Am.(W)	C./So.Am.	C./So.Af	ME/So.As.	Ea.As.	Aus./NZ.	Eu/No.Af.	N.Am.(E)	N.Am.(W)	C./So.Am.	C./So.Af.	ME/So.As.	Ea.As.	Aus./NZ.
EUROPE	00.00–07.00	23.00–06.00	6	6	6	9	9	7	9	9	6	9	9	9	9	7	9	9	9	11	11	11	9	9	9	9
AND	07.00–16.00	06.00–15.00	11	9	6	15	15	15	15	11	11	9	9	15	15	15	15	11	11	11	11	15	15	15	15	11
NORTH AFRICA	16.00–20.00	15.00–19.00	7	15	9	15	15	9	9	9	9	15	15	15	15	11	11	9	9	15	15	15	15	15	15	9
	20.00–24.00	19.00–23.00	6	11	–	11	9	7	9	9	6	15	15	15	11	9	11	9	9	15	15	15	11	9	11	9
NORTH	12– 7AM	05.00–12.00	9	6	6	6	7	7	9	9	9	6	9	6	7	7	9	9	9	9	9	9	9	9	11	11
AMERICA	7AM–12N	12.00–17.00	15	15	9	9	15	15	9	9	15	15	9	9	15	15	11	9	15	15	9	11	15	15	11	11
(EAST)	12N – 6AM	17.00–23.00	9	11	15	15	11	11	–	11	15	15	15	15	11	11	–	11	15	15	15	15	15	15	15	15
	6–12AM	23.00–05.00	6	6	9	6	*9	7	11	15	9	9	11	6*11	9	15	15		11	9	15	9*11	9	15	15	
NORTH	12– 6AM	08.00–14.00	7	6	6	9	9	11	6	9	7	9	6	9	9	11	9	9	9	11	9	9	9	11	9	9
AMERICA	6AM–12N	14.00–20.00	11	15	9	15	15	15	9	9	11	15	9	15	15	15	9	9	11	15	9	15	15	15	11	9
(WEST)	12N – 6AM	20.00–02.00	9	9	15	11	9	9	15	17	9	15	15	15	11	9	15	17	11	15	15	15	11	11	15	17
	6–12AM	02.00–08.00	6	6	9	9	7	7	15	15	6	9	9	11	9	9	15	15	9	9	9	11	9	11	15	15
CENTRAL	00.00–06.00	04.00–10.00	7	6	9	6	9	9	9	11	9	9	9	6	9	9	9	11	11	9	9	6	9	11	11	11
AND	06.00–12.00	10.00–16.00	15	9	9	11	15	15	9	11	17	15	9	11	15	15	9	11	15	11	9	11	15	15	11	11
SOUTH	12.00–18.00	16.00–22.00	15	15*	15	11	11	15	9	11	15	17*	17	11	11	15	9	11	15	17*	17	11	11	15	15	11
AMERICA	18.00–24.00	22.00–04.00	9	9	11	6*11	9	15	15		11	11	15	6*11	9	15	15		11	15	15	6*11	11	15	15	
CENTRAL	00.00–06.00	22.00–04.00	7	9	11	11	6	9	9	15	9	9	11	11	6	9	9	15	9	9	9	11	6	9	9	9
AND	06.00–12.00	04.00–10.00	9	9	9	9	11	15	11	15	11	9	9	11	11	15	11	15	11	9	9	11	11	15	11	15
SOUTH	12.00–18.00	10.00–16.00	15	15	9	15	11	15	9	11	15	15	9	15	11	15	11	15	15	15	9	15	11	15	11	15
AFRICA	18.00–24.00	16.00–22.00	9	15*	15	15	11	15	7	11	11	15*	17	15	11	15	9	11	11	15*	15	15	11	15	9	9
MIDDLE	00.00–06.00	21.00–03.00	7	6	9	9	7	6	6	6	9	9	9	9	9	7	9	9	9	11	11	9	7	7	9	9
EAST	06.00–12.00	03.00–09.00	11	9	6	11	15	11	15	17	9	9	6	15	15	15	15	17	11	11	9	15	15	15	15	17
AND	17.00–18.00	09.00–15.00	11	15	9	15	11	11	11	9	17	11	9	15	11	15	11	9	15	15	9	15	11	15	11	9
SOUTH ASIA	18.00–24.00	15.00–21.00	7	11	9	11	9	6	6	7	11	15	11	15	9	7	9	9	11	15	11	15	9	7	9	9
EAST ASIA	00.00–06.00	16.00–22.00	6	9	*9	–	7	7	6	9	9	11*	11	–	9	9	6	9	11	15*	15	–	7	11	6	9
	06.00–12.00	22.00–04.00	7	11	15	15	*9	9	11	15	7	15	15	15	*9	9	11	15	11	15	17	15	–	11	11	15
	12.00–18.00	04.00–10.00	7	9	9	9	11	11	11	17	9	9	11	11	17	15	11	17	11	11	15	11	15	15	11	17
	18.00–24.00	10.00–16.00	9	9	6	9	9	7	7	11	11	9	6	9	11	11	7	11	15	11	9	9	15	15	7	9
AUSTRALIA	00.00–06.00	14.00–20.00	11	11	9	11	11	11	11	9	11	9	9	11	11	11	11	9	11	9	9	9	9	11	11	9
AND	06.00–12.00	20.00–02.00	9	11	17	15	11	11	15	15	9	15	17	15	11	11	15	15	9	15	17	15	11	11	15	15
New ZEALAND	12.00–18.00	02.00–08.00	9	9	11	15	15	15	15	15	9	9	15	15	15	15	15	15	9	9	15	15	15	15	15	15
	18.00–24.00	08.00–14.00	17	9	9	15	15	15	15	11	17	9	9	15	15	15	15	11	17	9	9	11	9	15	15	11

The band selections have been made on the basis of both propagation conditions and the operating schedules of broadcasting stations.
A dash in the band column indicates reception is not expected due to difficult propagation conditions.
A number preceeded by an as asterisk indicates the most suitable band propagationally but transmitters not normally in operation.
I would appreciate comments on differences noted between these predictions and actual experience during 1966.

CALL SIGN ALLOCATIONS

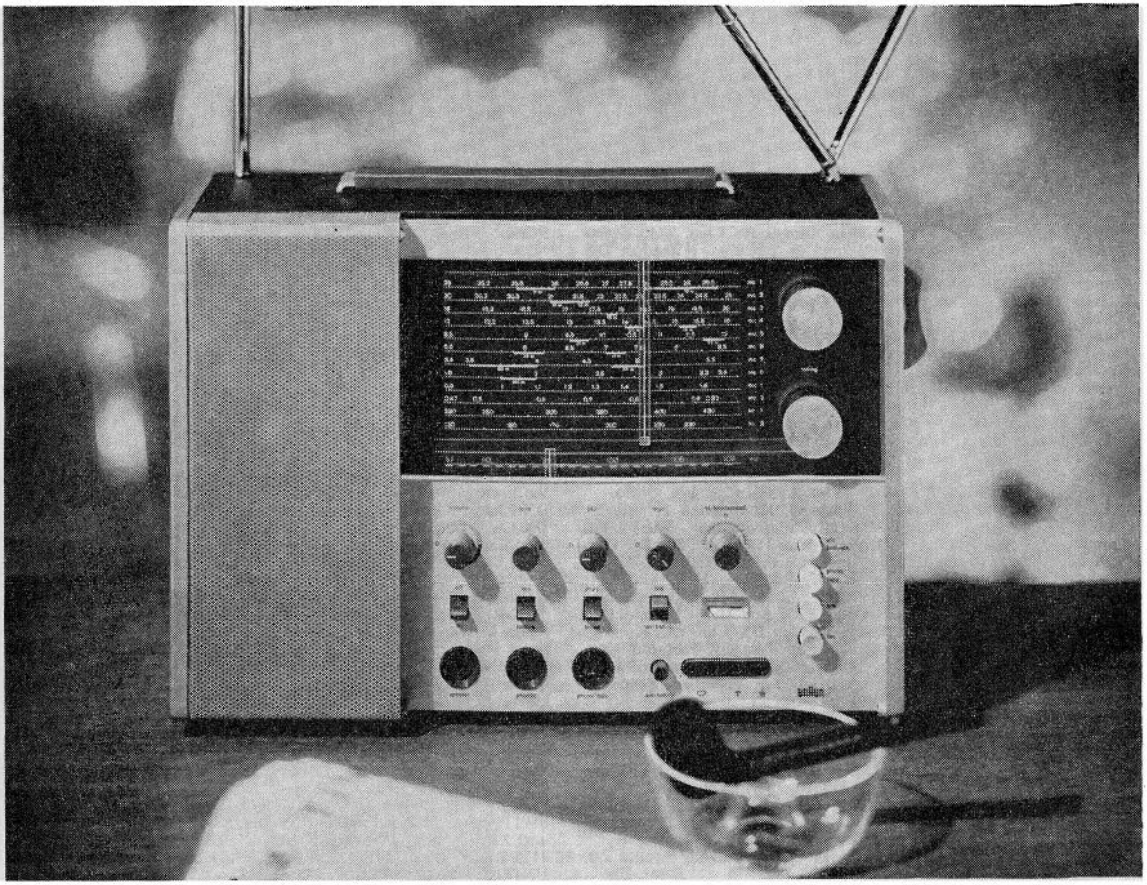
(by alphabetical order of call signs)

The first character or the first two characters of a call sign indicates the nationality of the station using it.

AAA-ALZ USA
AMA-AOZ Spain
APA-ASZ Pakistan
ATA-AWZ India
AXA-AXZ Australia
AYA-AZZ Argentine
BAA-BZZ China
CAA-CEZ Chile
CFA-CKZ Canada
CLA-CMZ Cuba
CNA-CNZ Morocco
COA-COZ Cuba
CPA-CPZ Bolivia
CQA-CRZ Portug. prov.
CSA-CUZ Portugal
CVA-CXZ Uruguay
CYA-CZZ Canada
DAA-DTZ Germany
DUA-DZZ Philippines
EAA-EHZ Spain
EIA-EJZ Ireland
EKA-EKZ USSR
ELA-ELZ Liberia
EMA-EOZ USSR
EPA-EQZ Iran
ERA-ERZ USSR
ESA-ESZ USSR (Estonia.)
ETA-ETZ Ethiopia
EUA-EWZ USSR (Bielorussia)
EXA-EZZ USSR
FAA-FZZ France& terr.
GAA-GZZ U.K.
HAA-HAZ Hungary
HBA-HBZ Switzerland
HCA-HDZ Ecuador
HEA-HEZ Switzerland
HFA-HFZ Poland
HGA-HGZ Hungary
HHA-HHZ Haiti
HIA-HIZ Dominican Rep.
HJA-HKZ Colombia
HLA-HMZ Korea Rep.
HNA-HNZ Iraq
HOA-HPZ Panama
HQA-HRZ Honduras Rep.
HSA-HSZ Thailand
HTA-HTZ Nicaragua
HUA-HUZ El Salvador
HVA-HVZ Vatican State
HWA-HYZ France & terr.
HZA-HZZ Saudi Arabia
IAA-IZZ Italy
JAA-JSZ Japan
JTA-JVZ Mongolia
JWA-JXZ Norway
JYA-JYZ Jordan
JZA-JZZ Indonesia (West Irian)
KAA-KZZ USA
LAA-LNZ Norway
LOA-LWZ Argentine
LXA-LXZ Luxembourg
LYA-LYZ USSR (Lithuania)
LZA-LZZ Bulgaria
MAA-MZZ U.K.
NAA-NZZ USA
OAA-OCZ Peru
ODA-ODZ Lebanon
OEA-OEZ Austria
OFA-OJZ Finland
OKA-OMZ Czechoslov.
ONA-OTZ Belgium
OUA-OZZ Denmark
PAA-PIZ Netherlands
PJA-PJZ Neth. Antilles
PKA-POZ Indonesia
PPA-PYZ Brazil
PZA-PZZ Surinam
QAA-QZZ Sce. abbrev.
RAA-RZZ USSR
SAA-SMZ Sweden
SNA-SRZ Poland
SSA-SSM UAR
SSN-STZ Sudan
SUA-SUZ UAR
SVA-SZZ Greece
TAA-TCZ Turkey
TDA-TDZ Guatemala
TEA-TEZ Costa Rica
TFA-TFZ Iceland
TGA-TGZ Guatemala
THA-THZ France & terr.
TIA-TIZ Costa Rica
TJA-TJZ Cameroon
TKA-TKZ France & terr.
TLA-TLZ C.African Rp.
TMA-TMZ France & terr.
TNA-TNZ Brazzaville
TOA-TQZ France & terr.
TRA-TRZ Gabon
TSA-TSZ Tunisia
TTA-TTZ Cchad
TUA-TUZ Ivory Coast
TVA-TXZ France & terr.
TYA-TYZ Dahomey
TZA-TZZ Mali
UAA-UQZ USSR
URA-UTZ USSR (Ukr.)
UUA-UZZ USSR
VAA-VGZ Canada
VHA-VNZ Australia
VOA-VOZ Canada
VPA-VSZ British overseas terr.
VTA-VWZ India
VXA-VYZ Canada
VZA-VZZ Australia
WAA-WZZ USA
XAA-XIZ Mexico
XJA-XOZ Canada
XPA-XPZ Denmark
XQA-XRZ Chile
XSA-XSZ China
XTA-XTZ Upper Volta
XUA-XUZ Cambodia
XVA-XVZ Vietnam
XWA-XWZ Laos
XXA-XXZ Portuguese overseas terr.
XYA-XZZ Burma
YAA-YAZ Afghanistan
YBA-YHZ Indonesia
YIA-YIZ Iraq
YJA-YJZ N. Hebrides

Continued page 248.

BRAUN



Universal All Band Radio

The T1000 is a universal radio and heterodyne receiver. Its 13 wave bands cover nearly all frequencies currently used for broadcasting throughout the world: Commercial and amateur, citizens bands and telegraphy, maritime and aeronautical broadcasts.

On FM the sensivity, selectivity, and noise suppression factors of the T1000 were pushed to the highest limits.
The short wave section is particularly well developed. Spread over eight bands, it permits the entire short-wave range from 1.6 to 30 mc to be received. Large, easy-to-read dials provide easy tuning. The instrument's bandspread affords precise station selection. A drum-type band selector with high repeat-exactness permits even weak stations to be quickly retuned.

The instrument's input sensivity reaches or surpasses that of commercial receivers. Automatic volume control (AVC) works on three stages. It is defeatable for direction finding purposes. In this case the desired sensivity may be set manually.

T1000

The T1000's selectivity is outstanding, its image rejection excellent. Broad or narrow bandwidth are switch selected. A beat frequency osciliator permits heterodyne reception.

The instrument operates on built-in mono cells (plus a separate one for the dial lighting), on a power pack of 6, 12, or 24 volts DC, or on 110/220 volts AC.

For information please write to:
Braun AG, Abt. Elektronik
6 Frankfurt am Main (Germany),
Rüsselsheimer Straße

DX-CLUBS OF THE WORLD

AUSTRALIA: Australian Radio DX-Club, P.O. Box E73, St. James, NSW (Publ: "Australian DX News") – **New Zealand DX-Radio Association, Inc**: Australia Section, c/- P.O. Sunbury, Victoria. (Publ: "Tune In" from HQ in New Zealand). **Branches**: Victoria – 404 Mont Albert Rd, Mont Albert E10 (Publ: "Victorian DX Listener). Tasmania – 33, Hampden Rd, Battery Point, Hobart. We. Australia – 108 Landsdown Rd, South Perth.

AUSTRIA: Radio Japan Club, 141/6 Grinzinger Strasse, Wien XIX – **Vienna News Agency**, c/o K. H. Lindenthal, Vienna XIV, Hütterldorferstr. 173 (Publ: "The News").

BENELUX: Benelux DX-Club, Oude Amersfoortseweg 153, Hilversum (Publ: "Benelux DX-Club" in Dutch and English).

CANADA: R. Canada Shortwave Club, c/o CBC, International Sce, P.O. Box 6000, Montreal – **Canadian Aero-Space Club**, 2740 Everts Ave, Windsor, Ontario (Publ: "Wings & Space") – **Canadian DX Club**, 926 Diamond Road, Richmond, B.C. (Publ: "Cadex") – **DX Organization of Winnipeg**, 430 Inlester Blvd, Winnipeg, Manitoba – **Intercontinental DX Club, 42**, Landfair Crescent, Scarborough, Ontario (Publ: "HI" bimonthly).

Toronto Trans World Shortwave Club, 28 Hiltop Road, Toronto 10, Ontario – **American SWL Club**, P.O. Box 218, Crystal Beach, Ontario – **Trans National DX League**, 174 Waterloo St, St. John, N.B – **Westcoast DX Club**, 644 Baker St, Victoria, B.C. (Publ: Bulletin twice monthly).

DENMARK: The Danish Short Wave Club International, P.O. Box 102 Vejlby-Risskov, (Publ: "Shortwave News" in E and "Kortbølge Nyt" in D) – **The Cimbrer DX-Club**, Box 27, Aars. (Publ: "The Cimbrer DX-News").

ECUADOR: HCJB-Club, La Voz de los Andes, Cas. 691, Quito.

FINLAND: Finlands Svenska DX-Förbund, Kungsgatan 11, Ekenäs (Publ: "Frekvensnytt" distributed to all affiliated clubs) – **The Finnish Transnational DX-Club**, c/o E. Blåfield, Box 117, Lahti 8 – **DX-Club "DX-Boys"**, Joukolantie 3C 20, Käpylä, Helsinki – ***Esbo-DX Klubb**, Marby, Esbo – **Finlands DX-Club r.f.**, Box 214, Helsinki (Publ: "Attention") – ***Nykarleby Radio Club r.f.**, c/o Alf Blomqvist, Nykarleby – **Suomen DX-Kuuntelijat r.y.**, P.O. Box 10454, Helsinki 10 (Publ: "DX-Kuuntelija") – ***Västra Nylands DX Club r.f.**, Kungsg. 11, Ekenäs – *=affiliated with Finlands Svenska DX-Förbund.

FRANCE: France DX-TV Club, (Association d'Amateurs de Reception Télévision a longue Distance), 183 rue Pellefort, Bordeaux (Gironde).

GERMANY: Calling DX-ers from Germany, Münchener Str. 40, Bremen (Publ: "Calling DX-ers from Germany") – **North German DX-Club**, 3 Hannover 1, P.O. Box 5332 – **Radio Canada Shortwave Club** 305 Wunstorf/Hann, Sudetenstr. 34 – **Radio Japan Club** (Publ: "RJC-Mitteilungen"). Branches as follows: Berlin: Berlin 42, Forddamm 47 – Hamburg: 200 Hamburg 19, Grädenerstr. 5 – Munich: 8 München 22, P.O. Box 134 – Kl. Aachener Runde: 51 Aachen, Robenstr. 44.

HUNGARY: Radio Budapest Shortwave Club, c/o Brody Sandor s.u. 5–7, Budapest VIII.

IRELAND: Trans National DX League of Ireland, c/o Patrick Ryan, 18 Church St, Letterkenny Co. Donegal (Publ: "DX-Diary").

ITALY: Radio Club "Carsi", P. Colombo 26, Carsi Ligure, Genova.

JAPAN: Japanese Short Wave Club, P.O. Box 29, Sendai. (Publ: "SW-DX Guide") – **Chunichi Radio Listeners Club**, C.P.O. Box 347 Nagoya. (Publ: "CRL Dayori") – **Radio Nederland & Deutsche Welle Listener Club**, P.O. Box 16 Itami, Hyogo.

KOREA: Korean Short Wave Club, c/o R.J.K. Khan, 3–4 Hoo Am Dong, Seoul.

MALTA: National Radio Club, 87, Old Church Street, Birkirkara, Malta G.C. (Publ: monthly newsletter).

NEW ZEALAND: New Zealand DX Radio Association, 78 District Rd, Green Island, Dunedin (Publ: "Tune In") – **New Zealand Radio DX League**, P.O. Box 1356, Christchurch (Publ: "New Zealand DX-Times").

NICARAGUA: Radio Club of Nicaragua, P.O. Box 925, Managua.

PORTUGAL: Radio Portugal DX-Club, Rua São Marcal 1-A, Lisbon (Publ: Newsheets).

NIGERIA: Radio Nigeria Listeners' Club, 45, Martins St, Lagos (Publ: "Radio Times").

NORWAY: DX-Listeners Club, P.O. Box 1284 V, Oslo 1. (Publ: DX-News). Local branches at Oslo, Grimstad, Halden, Drammen, Hamar, Kristiansand, Tønsberg, Egersund, Bergen, Trondheim and Mysen.

SOUTH AFRICA: World Wide Radio Listeners Club, P.O. Box 48, Umtata (Publ: DX-Monitor). All club correspondance to: 6A St. Augustines Rd, West End, Kimberley.

SWEDEN: Affiliated with 1) DX-Alliansen, 2) member of Sveriges DX-Förbund.

DX-Alliansen (National Union of Swedish Clubs), Box 3108, Stockholm 3 (Publ: "Allians Nytt" in Swedish and "Allians News" in English) – **Sveriges DX-Förbund** (a union of clubs), Landskrona (Publ: "Eter Aktuellt" for all affiliated clubs).

Arboga Shortwave Club, Box 528, Arboga – 1) **Arctic Radio Club**, Box 81, Falköping MW-DX only (Pub: "MW-Eko") – **Atlas DX Club**, Box 34, Skene – 1)2) **Bjuv Radio Klubb**, Bjuv – 1)2) **Burträsk DX-Club**, Box 222, Burträsk – 1) **DX-Cirkeln i Stockholm**, Attundavägen 21B, Bromma – 1)2) **DX-Club Tellus**, Götgatan 16, Söderhamn – 2) **DX-Club Staffis**, P. H. Lings väg 18, Staffanstorp – 1)2) **DX-Club 57**, Box 46, Nässjö – 1)2) **DX-Club 63**, c/o Tegner, Ringvägen 22, Vimmerby – 1) **DX-Klubben Electron**, Box 2066, Eskilstuna – 1) **DX-Klubben Vargen**, Box 84, Nås – 1) **DX-Klubben Ålen**, Vänskapsvägen 53, Stockholm K – 1) **Fagersta DX-Klubb**, Mistelvägen 8, Fagersta (Publ: "Shortwave Radio") – 1)2) **Falkens DX-Club**, Box 5, Klintehamn – 1) **Folkunga DX-Club**, Stora Torget 5, Linköping – 1) **Fyris Radio Club**, Box 2020, Uppsala 2 – 1) **Gothenburg DX-Club International**, Box 31004, Göteborg 31 (Publ: "GDX-aren") – 1) **Göteborgs DX-Club**, Box 31004, Göteborg 31 (Publ: "GDX-aren") – **Göteborgs Fritidsbyrås DX-sektion** (GFDX), Box 5134, Göteborg 5 (Publ: "DX-tips") – 1) **Halmstads Kortvågsklubb**, Fack 15, Halmstad – 1)2) **Husum DX Club**, Box 199, Husum – **Hörby DX-Club**, Torggatan 21, Hörby – 1) **IOGT DX-Club**, Vasagatan 9, Stockholm C – 1)2) **Kopparbergs Radioklubb**, Box 979A, Kopparberg – 2) **Källö Radioklubb**, Källö-Knipplan – **Lysekils DX-Club**, Norra Kvarnsgatan 24, Lysekil (Publ: "Lysekil Calling DX-ers") – 1)2) **Malmö Kortvågsklubb**, Fack 7026, Malmö 7 – 1) **Mälardalens Radiosällskap**, Stenshällsvägen 13 n.b, Stockholm K (Publ: "QRG-bulletinen") – **Nordic Radio Club**, Altunagatan 9, Västerås (Publ: "Norac") (Mediumwave only) – 1) **Oskar Fredriksborgs DX-Klubb**, UB 16, Oskar Fredriksborg – **Radio Communications DX-Clubs**, Kyrkvägen 6A, Kopparberg (PTP-DX only) (Publ: "From Point to Point") – 1) **Radio Klubben Micro**, Box 3054, Hälsingborg 3 (Publ: "RCM-Bulletinen") – 1) **Radioklubben Universal**, Box 2053 Huddinge 2–2) **Rågsveds DX-Klubb**, Vallhornsgatan 28[1], Stockholm-Bandhagen. – 1)2) **Snapphanens DX-Klubb**, Gethornskroken 15B, Hässleholm – 1)2) **Skellefteå DX-Club**, Vitbergsvägen 22, Skellefteå – 1) **Stockholms DX-Club**, Carl Larssons väg 50, Bromma – 1)2) **Sundets DX-Club**, Pilåkersgatan 27G, Landskrona – 3) **Sundbybergs Radioklubb**, Box 48, Sundbyberg (Publ: "DX-Radio") – 1)2) **Svalans DX-Club**, Bankogårdsgatan 47, Hälsingborg – 1) **Sveriges Radioklubb**, Box 5083, Stockholm 5 (Publ: "DX-Radio") – **Swedish Amateur Radiolisteners Club**, Box 701, Lund (Ham DX only) – 1) **Teknik för Allas Eterklubb**, Box 3137, Stockholm 3 (Publ: "Teknik för Alla") – 1)2) **The DX-Companions**, Box 35, Hällestad – 1) **The Goodwill DX-Club**, Box 4235, Malmö 4 – 1) 2) **Umeå Kortvågsklubb**, Box 117, Umeå 1 – 1) **Västra Aros Lyssnarklubb**, Box 165, Västerås (Publ: "Kortvågen") – 1) **Västerbergslagens Radioklubb**, Olsjön, Box 522, Saxdalen (Publ: "Radio-nytt") – 1) **Väst Sveriges DX-förbund**, Box 31004, Göteborg 31 (Publ: "GDX-aren") – 1) **Wermlands Radio Union**, Box 25, Karlskoga (Publ: "WRUinformation") – 1) **Ystads DX-Förbund**, Box 9337, Skövde – **DX-Alliansens Vänner**, c/o Claës-W. Englund, Stockholmsvägen 41, Enebyberg (Supporting DX-Alliansen) (Publ: Allians-Nytt).

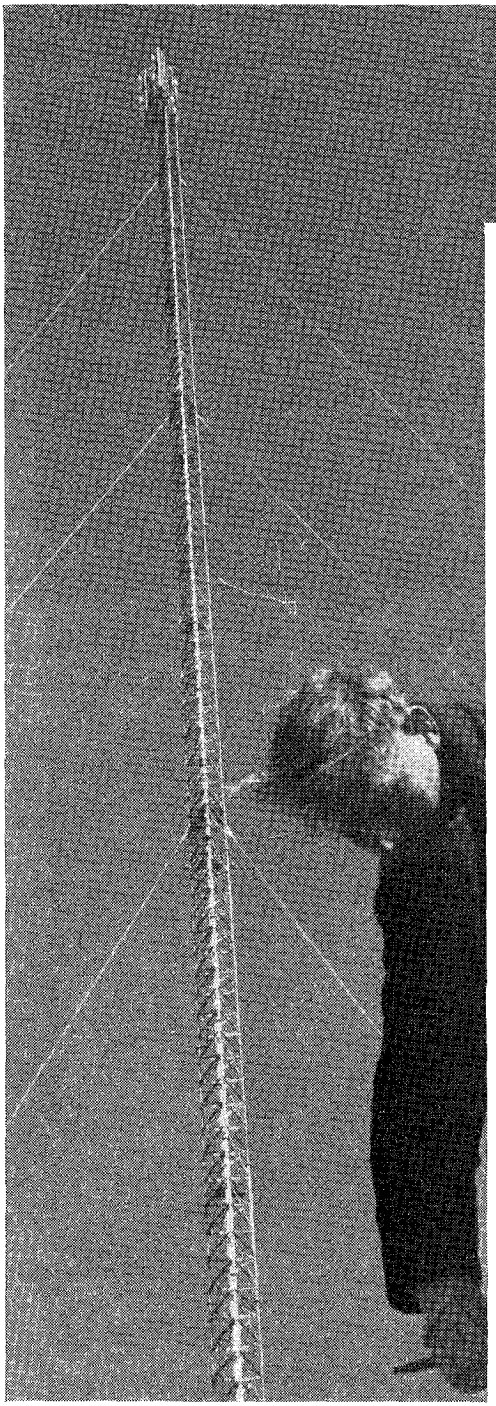
SWITZERLAND: Schweizer DX-Club, Schürenstr. 3, 8903 Birmensdorf/ZH (Publ: "DX-Diary") – **Swiss BC-SWL-Club**, Rainallee 16, 4125 Riehen BS (Publ: "Swiss SW-News").

UNITED KINGDOM: International Short Wave Club, 100 Adams Garden Estate, London, S.E. 16, England (Publ: "International Short Wave Radio") – **International Short Wave League**, 60 White Street, Derby, England (Publ: "Monitor") – **Pathfinder Radio Group**, 13 Little Rd, Hemel Hempstead (Publ: "APF DXer") – **Ripon Radio Club**, Tranby Croft, Glasshouses, Harrogate, Yorks – **Trans National DX-Lague**, 99 East Claremont St, Edinburgh 7, Scotland (Publ: "DX-Diary"). A number of branches in the UK and foreign countries – **World Communications Club of Gt. Britain**, 26 Tolhouse St, Gt. Yarmouth, Norfolk (Publ: "Contact").

USA: America Central Radio Club, 207 E 16th St, Bloomington, Ind. 47403 (Publ: "America Central Radio Bulletin") – **Association of North American Radio Clubs**, 1832 Ridge Drive, Racine, Wisc. (Publ: newsletters) – **American SWL's Club**: see Canada – **DX-Internationale**, 91 Court St, Newton, Mass (Publ: "DXI") – **International Radio Club of America**, P.O. Box 112, Englewood, Colorado 80110 (Publ: "DX-Monitor") – **Natick Shortwave Radio Club**, West St, Natick, Mass. 01760 (Publ: "DX-around the world") – **National Radio Club**, P.O. Box 223, Kittaming, Pa. 16201 (Publ: "DX-News") – **Newark News Radio Club**, 215 Market St, Newark 1, N.J. (Publ: "NNRC Bulletin") – **North American Shortwave Association**, 1502 Fifth Avenue, Altoona, Pa. 16602 (Publ: "Frendx") – **Radio New York Worldwide SWL Club**, R. New York Worldwide, New York City 19, N.Y. (Publ: monthly bulletin) – **Worldwide Monitors Radio Club**, 4834 Old York Rd, Philadelphia, Pa. 19141 (Publ: "DXers Digest").

WEST INDIES: West Indian DXers Ass, 21 Richmond St. Port of Spain, Trinidad & Tobago (Publ: "Association-Bulletin", Box 189 Castries, St. Lucia).

Where to obtain the WRTH: see page 303



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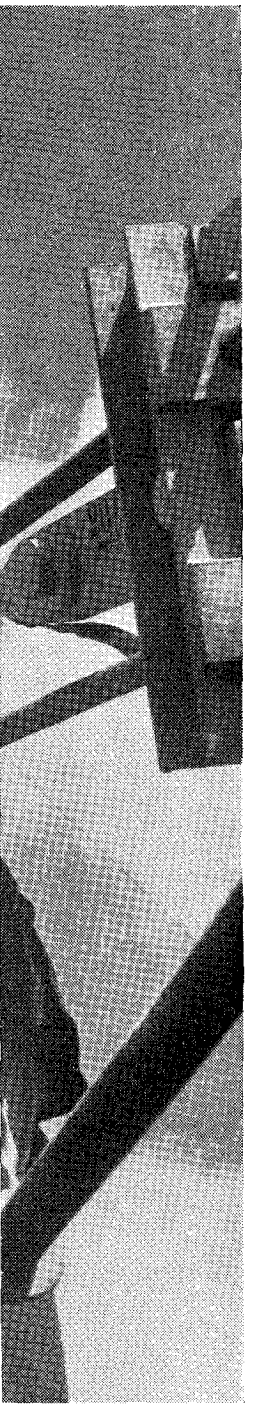

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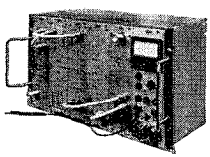

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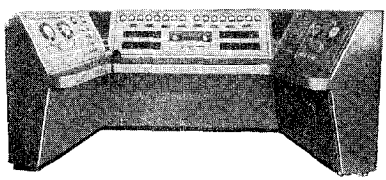

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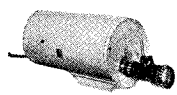

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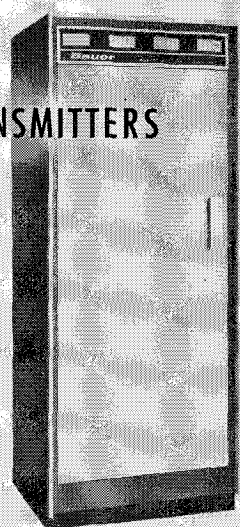

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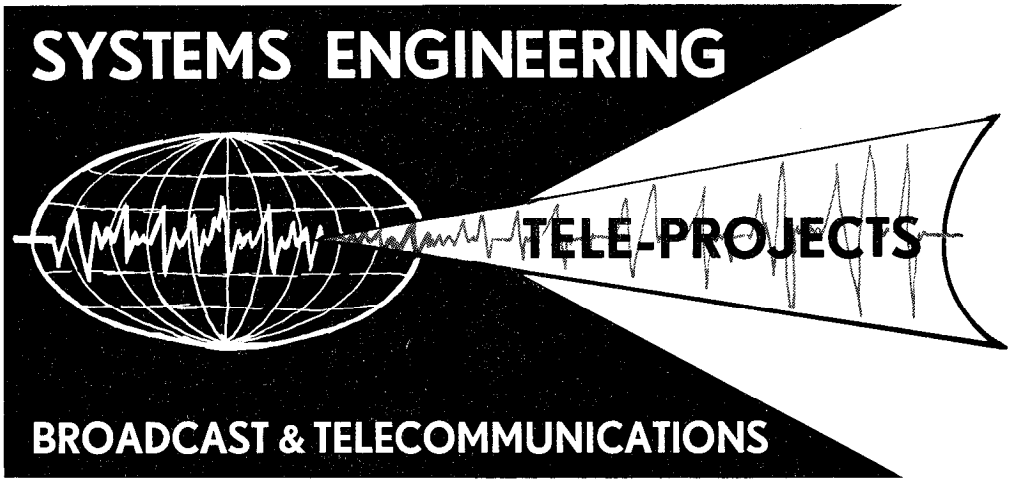

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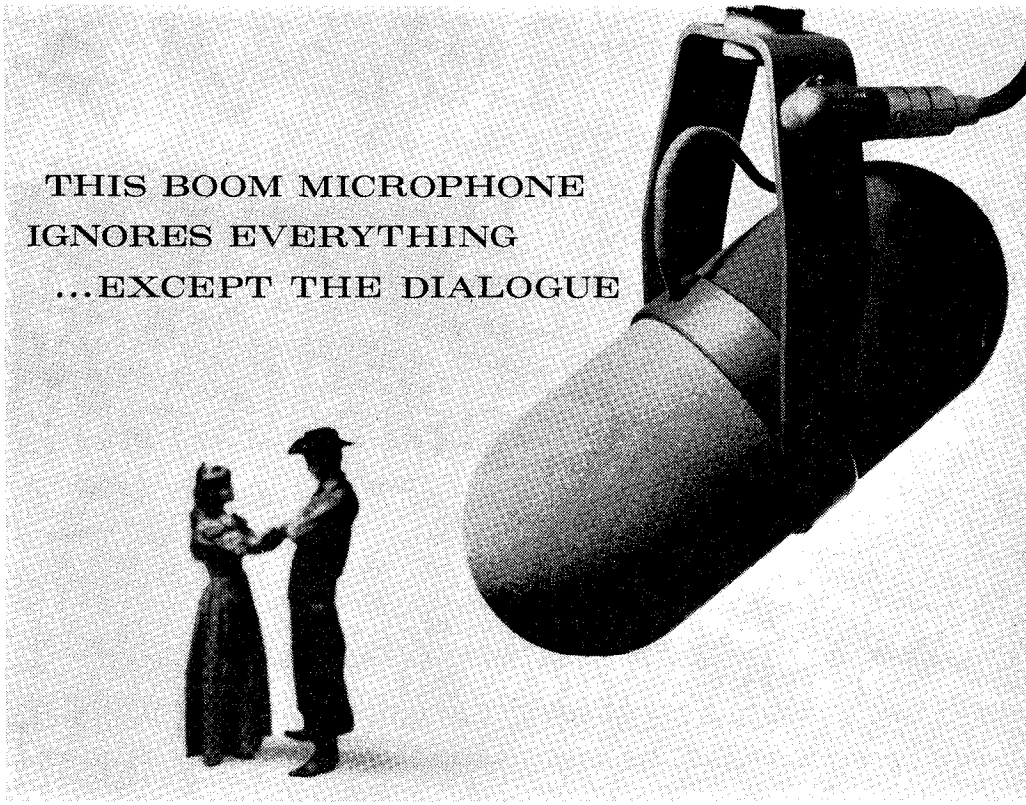

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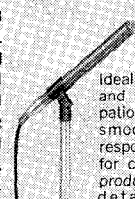

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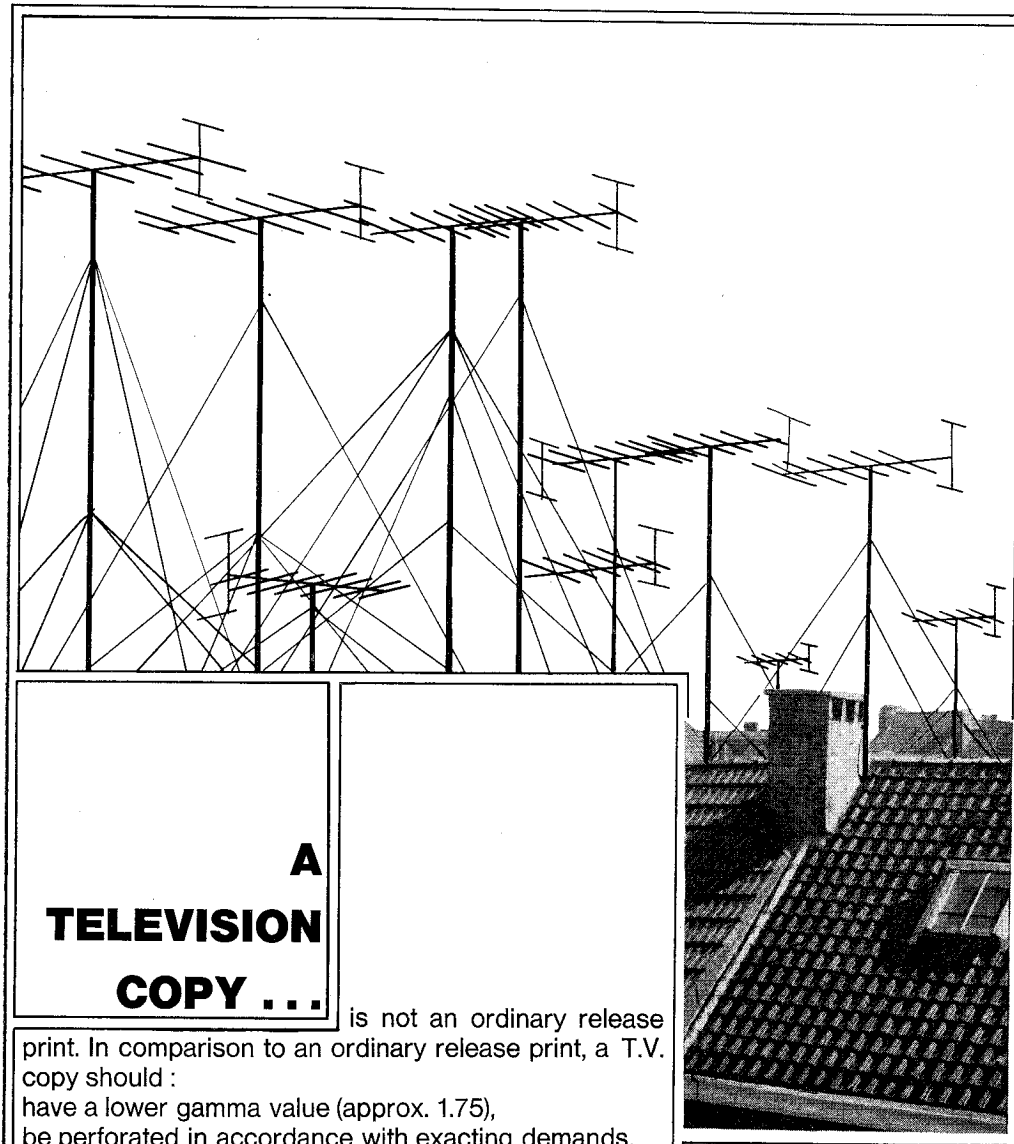

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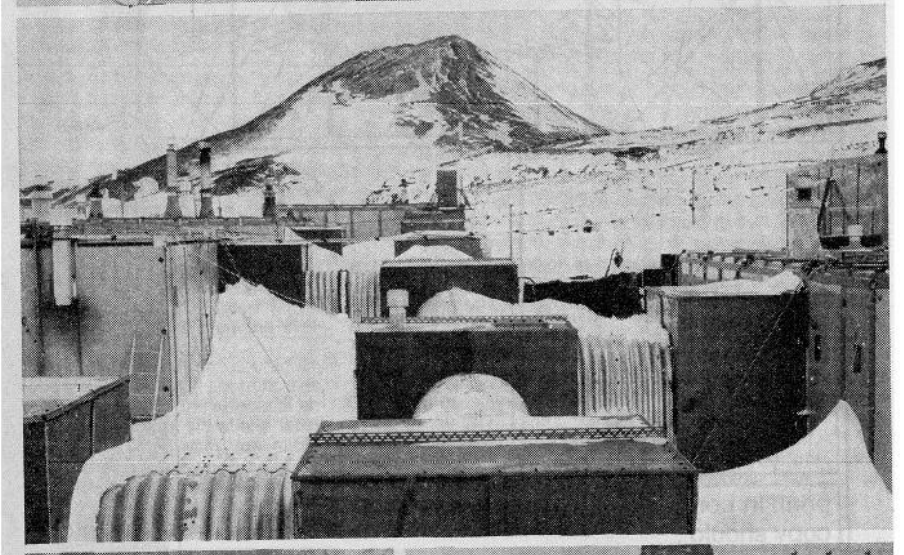

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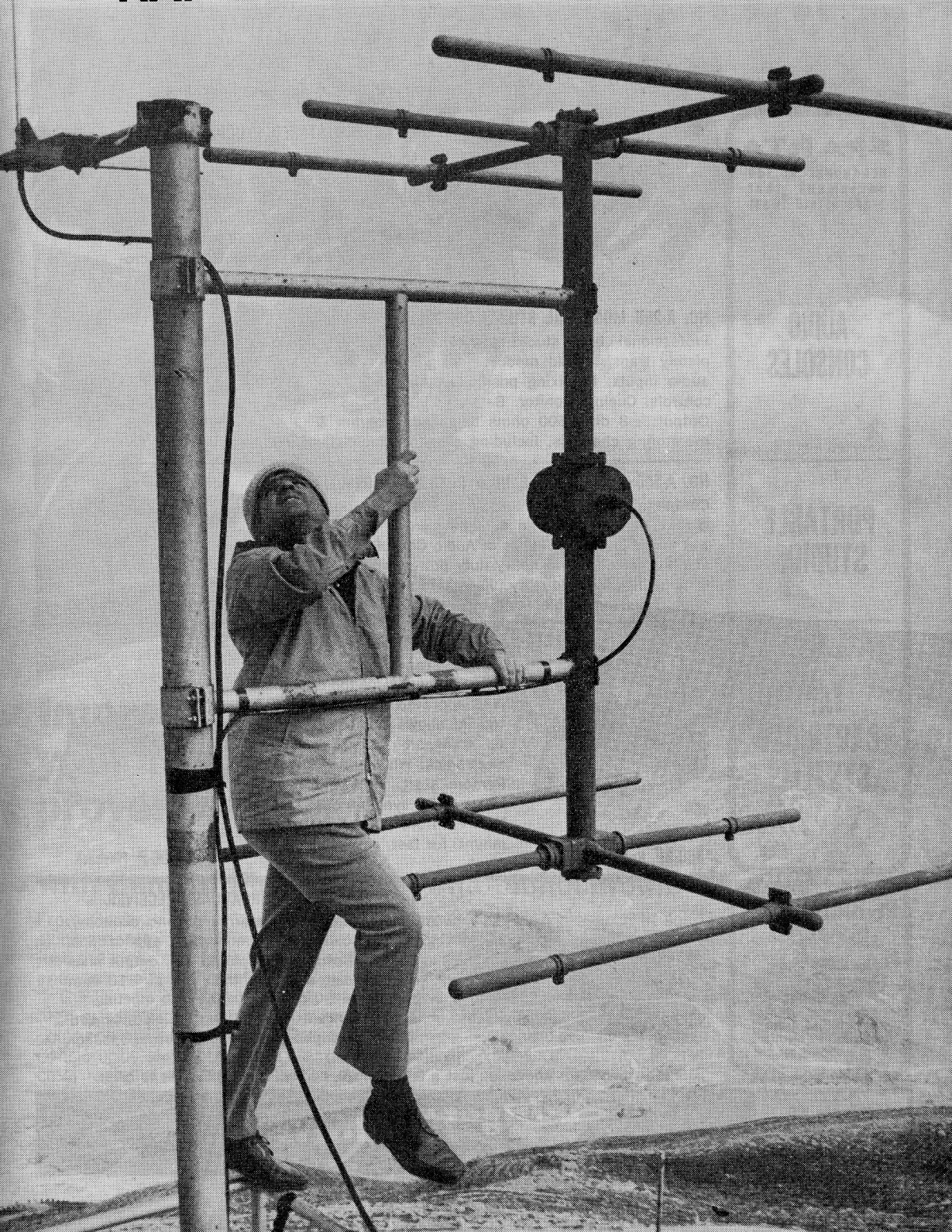

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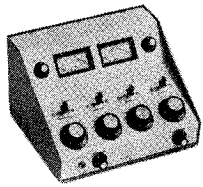

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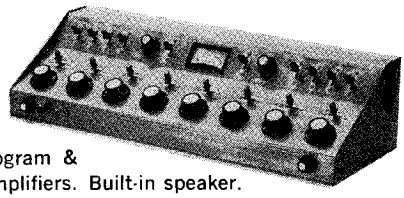

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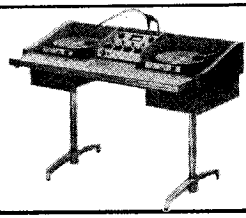

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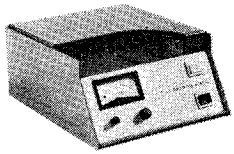

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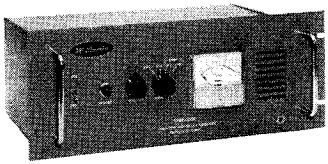

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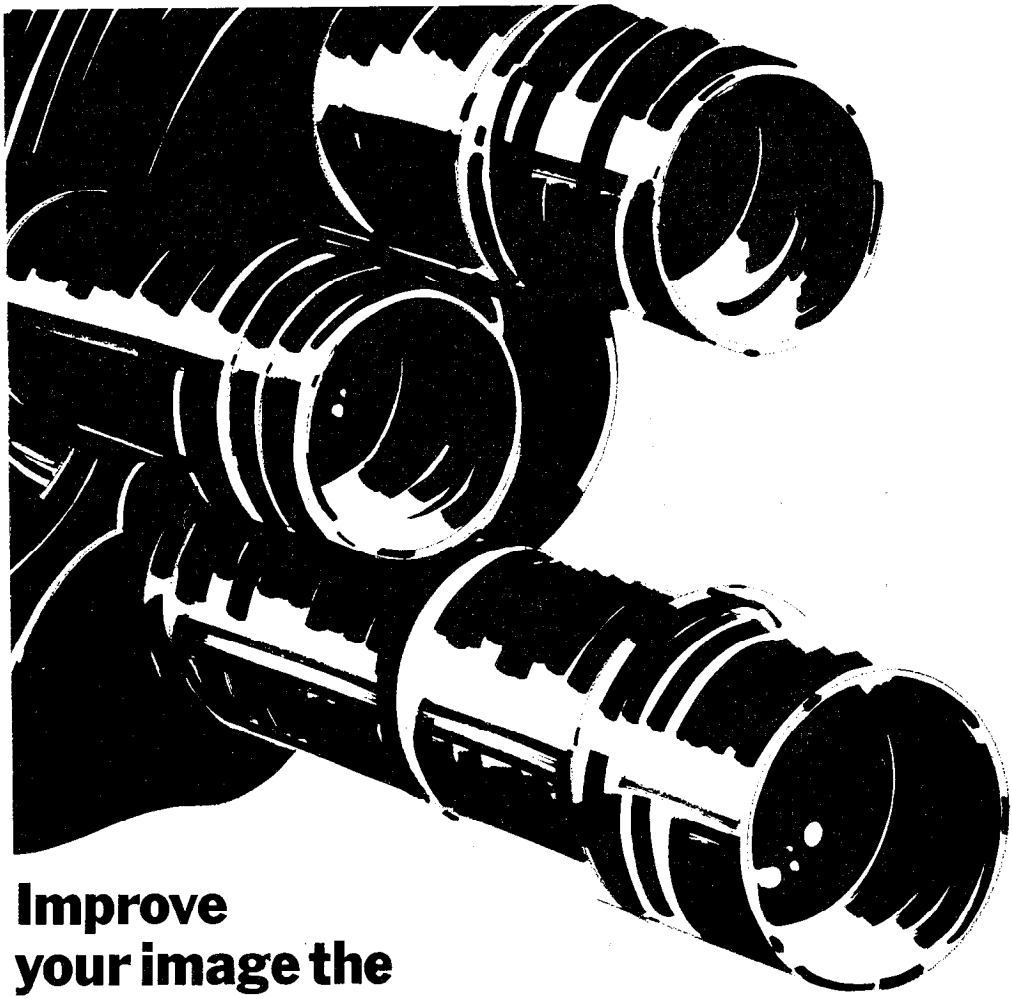

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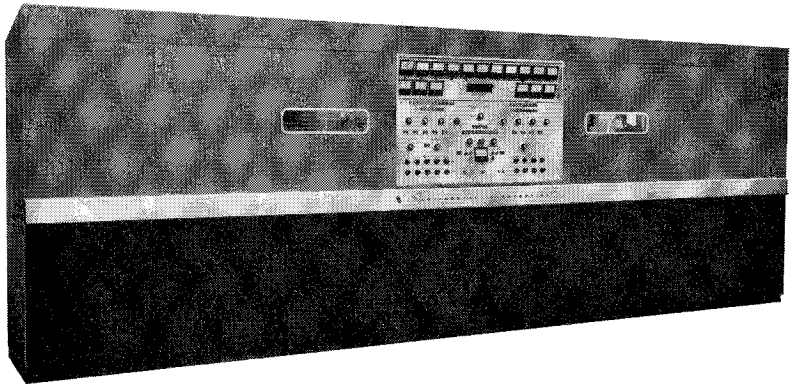

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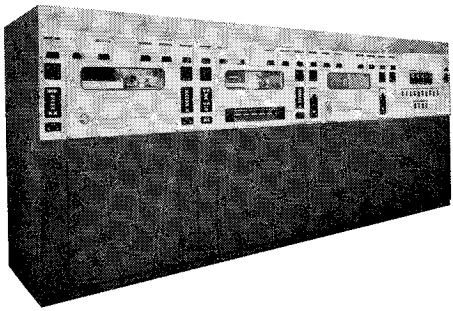

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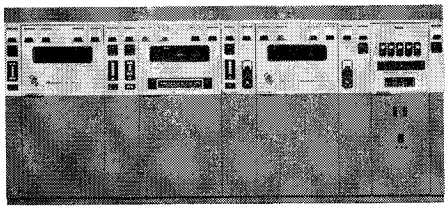

TYPE 417B 50 KW HF BROADCAST TRANSMITTER

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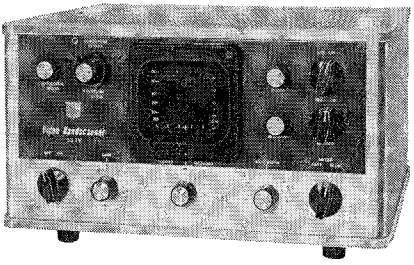
SS-IBS

High Performance Communications Receiver explicitly designed for operation on the International Broadcast Bands

The SS-IBS International Broadcast Receiver is a completely new high performance communications receiver explicitly designed for use on the high frequency broadcast bands between 3.5 and 26.1 megacycles. The SS-IBS receiver is *unique* in its ability to receive weak signals located only a few kilocycles away from powerful broadcasts. The SS-IBS features unusual simplicity of operation, allowing relatively unskilled individuals to achieve results of professional quality; yet it provides performance characteristics and operating controls which will improve reception at the hand of an experienced operator. SS-IBS may be used with accessory speaker or headphones for monitoring and has suitable output connection for recording, direct rebroadcast, and visual band monitoring with the SS-IV Video Bandscanner. The SS-IBS is designed for use with an optional noise silencer (SS-IS) of extreme effectiveness on impulse noise.

SPECIAL FEATURES: Extreme Freedom from Cross Modulation and Overload • Unusual Frequency Precision with Digital Readout in Kilocycles • Rapid and Exact Tuning Mechanism with Motor Drive for Fast Traverse • 8.0, 5.0 and 2.5 kc. Selectivity with Sharp Crystal Lattice Filter • Choice of AM, USB, LSB or CW Modes • Provision for Exalted Carrier Reception

SS-IV, Video Bandscanner. This unique oscilloscope display unit, when used with the SS-IBS, shows all signals in the band in use, or any portion of the band can be expanded to full screen for detailed examination. Both linear and logarithmic displays are provided. A marker pip constantly shows the exact frequency to which the receiver is tuned. The sharp resolution of this unit permits observation and measurement of two AM sidebands displaced only 2.5 kc. from the carrier. Provision is made for transmitter monitor-or analysis.



Squires - Sanders, Inc.

MARTINSVILLE ROAD / LIBERTY CORNER • MILLINGTON, N.J. 07946

CO-OPERATORS *and* MONITORS

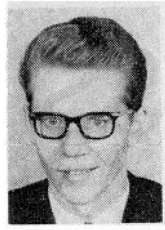
Italo Amore
Colombia

Peter H. Ashcroft
England

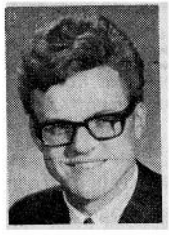
August Balbi
USA

Anthony
L. Coundakis
Greece

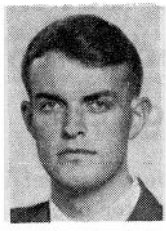
Arthur T. Cushen
New Zealand


Maarten van Delft,
Holland

William
O. Dickerman
USA


Torbjørn
Ejnarsson
Sweden

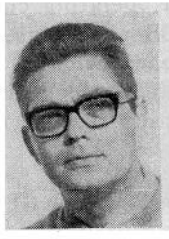
Tor-Henrik
Ekblom
Denmark


Ellmann Ellingsen
Norway

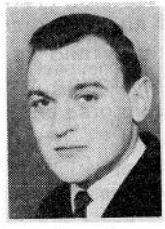
Börge Eriksson
Sweden

A. T. Farmer
Scotland

Richard Ginbey
South Africa


J. Dahl Hansen
South Africa

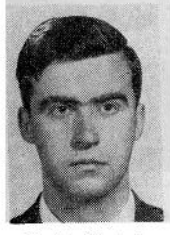
Victor C. Jaar
Haiti


Dieter Jahn
Germany

Miss A. Jørgensen
Denmark

Gerard Peet
Holland

Thomas Roesler
Brazil

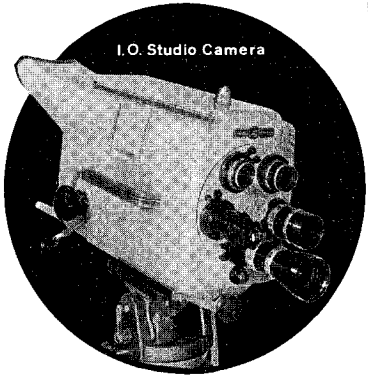

José A. Tartajo
Garrido
Spain

Werner Uthoff
Germany

Bartie Wildblood
England

Richard E. Wood
USA

TV STUDIO EQUIPMENT


I.O. Studio Camera

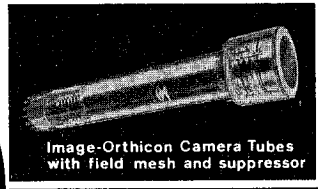
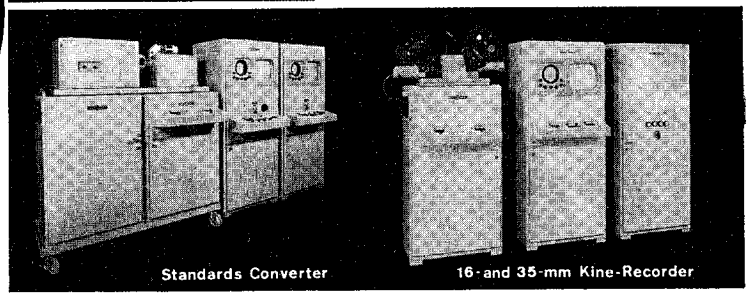


Image-Orthicon Camera Tubes with field mesh and suppressor

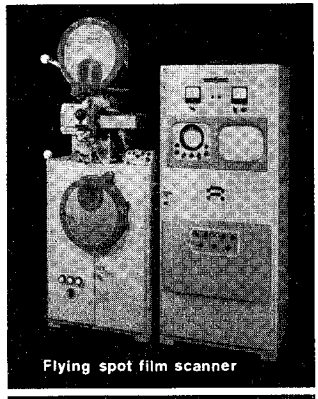
KNOWN FOR QUALITY AND RELIABILITY


Standards Converter

16- and 35-mm Kine-Recorder

IN TV-STUDIOS THROUGHOUT THE WORLD

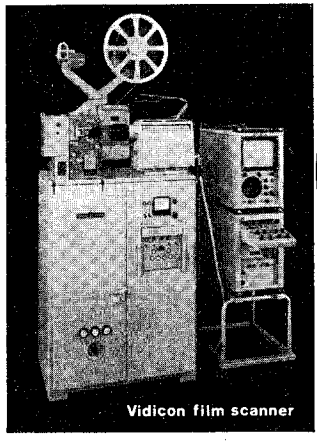
Aarhus
Adelaide
Amsterdam
Ankara
Aruba
Baden-Baden
Barcelona
Berlin
Bern
Bilbao
Bonn
Bremen
Brisbane
Brussels
Budapest
Buenos-Aires
Bulawayo
Bussum
Caracas
Cologne
Copenhagen
Curacao
Frankfurt
Genf
Göteborg
Hamburg
Hannover
Helsinki
Hobart
Jnnsbruck
Karatschi
Khartoun
Kitwe
Lima
Lisbon
Luxemburg
Madrid
Mainz
Malmö
Melbourne
Milan
Munich
New Delhi
New York
Oslo
Perth
Porto
Raisting
Rome
Saarbrücken
Salisbury
Santiago
Sydney
Stockholm
Stuttgart
Tampico
Turin
Vienna
Wiesbaden
Zürich


Flying spot film scanner

INDUSTRIAL CLOSED CIRCUIT EQUIPMENT

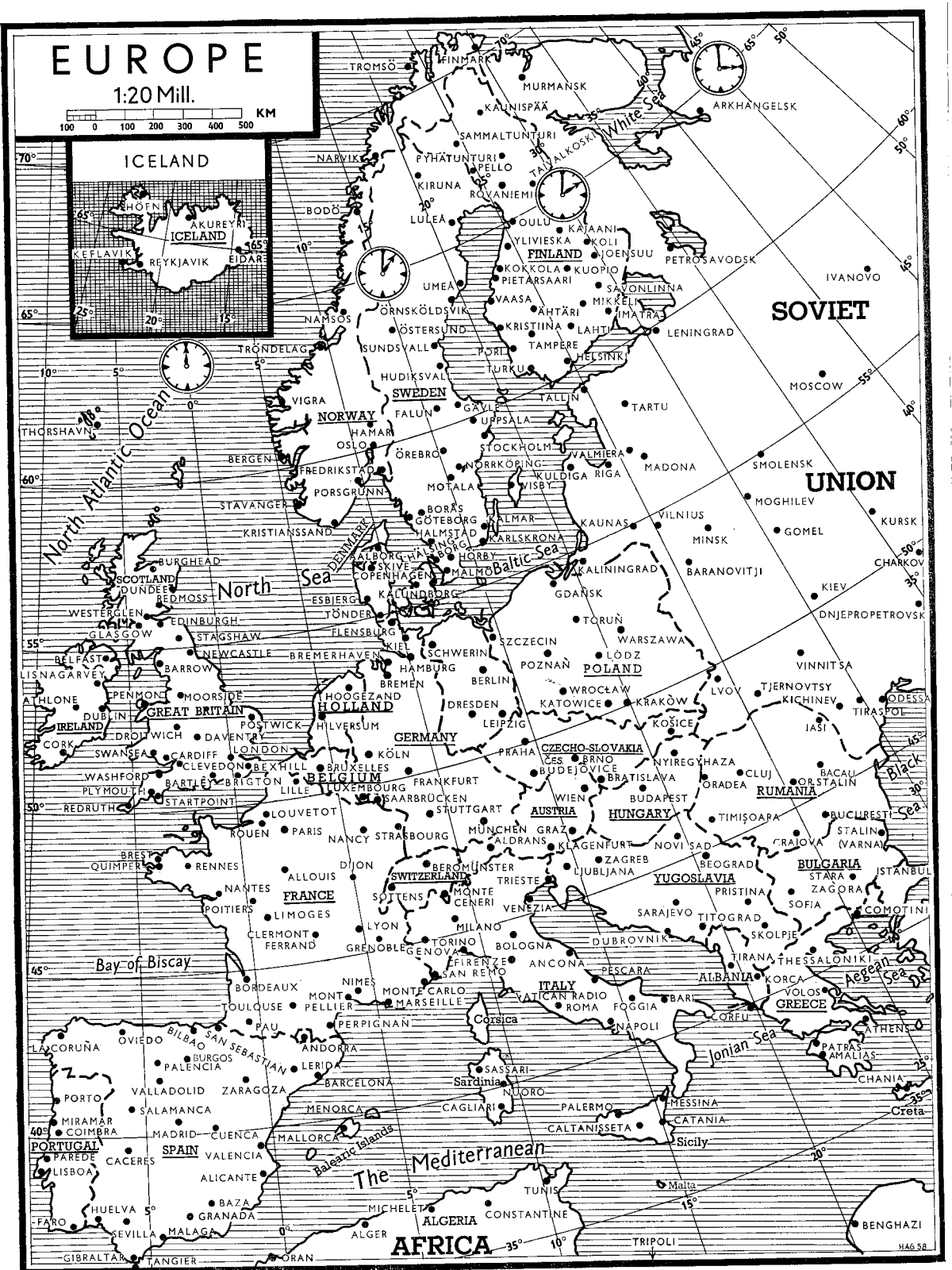
TELEVISION SPECIAL MEASURING INSTRUMENTS

PHOTOMULTIPLIERS


Vidicon film scanner

OB-Van

FERNSEH GMBH
DARMSTADT GERMANY


EUROPE
1:20 Mill.
KM
100 0 100 200 300 400 500
ICELAND
HÖFN
AKUREYRI
ICELAND
KEFLAVIK
REYKJAVIK
EIDAR
TROMSÖ
FINMARK
MURMANSK
ARKHANGELSK
White Sea
KAUNISPÄÄ
SAMMALTUNTURI
PYHÄTUNTURI
PELLO
KIRUNA
ROVANIEMI
TAIVALKOSKI
NARVIK
BODÖ
LULEA
OULU
KAJAANI
YLIVIESKA
KOLI
JOENSUU
FINLAND
KOKKOLA
KUOPIO
PIETARSAARI
PETROSAVODSK
IVANOVO
UMEÅ
VAASA
SAVONLINNA
MIKKELI
ÄHTÄRI
IMATRA
ÖRNSKÖLDSVIK
NAMSOS
ÖSTERSUND
KRISTIINA
LAHTI
LENINGRAD
SOVIET
TRONDELAG
SUNDSVALL
PORI
TAMPERE
HELSINKI
TURKU
HUDIKSVAL
SWEDEN
TALLIN
MOSCOW
VIGRA
NORWAY
FALUN
GÄVLE
TARTU
THORSHAVN
HAMAR
UPPSALA
OSLO
STOCKHOLM
VALMIERA
BERGEN
ÖREBRO
NORRKÖPING
RIGA
MADONA
SMOLENSK
FREDRIKSTAD
KULDIGA
VISBY
UNION
PORSGRUNN
MOTALA
MOGHILEV
STAVANGER
BORÅS
GÖTEBORG
KALMAR
KAUNAS
VILNIUS
KURSK
KRISTIANSSAND
HALMSTAD
KARLSKRONA
MINSK
GOMEL
North Atlantic Ocean
DENMARK
AALBORG
HELSINGBORG
HORBY
Baltic Sea
KALININGRAD
BARANOVITJI
CHARKOV
BURGHEAD
SKIVE
COPENHAGEN
MALMÖ
SCOTLAND
DUNDEE
North Sea
KALUNDBORG
GDAŃSK
KIEV
BEDMOSS
ESBJERG
WESTERGLEN
TÖNDER
TORUŃ
DNJEPROPETROVSK
EDINBURGH
GLASGOW
FLENSBURG
WARSZAWA
STAGSHAW
KIEL
SZCZECIN
BELFAST
NEWCASTLE
BREMERHAVEN
SCHWERIN
LÓDŹ
VINNITSA
LISNAGARVEY
BARROW
HAMBURG
POZNAŃ
POLAND
ATHLONE
PENMON
MOORSIDE
BREMEN
BERLIN
LVOV
TJERNOVTSY
KICHINEV
ODESSA
DUBLIN
GREAT BRITAIN
HOOGEZAND
HOLLAND
DRESDEN
WROCŁAW
KATOWICE
KRAKÓW
TIRASPOL
IRELAND
DROITWICH
DAVENTRY
POSTWICK
HILVERSUM
LEIPZIG
KOŠICE
IAŞI
CORK
GERMANY
SWANSEA
CARDIFF
LONDON
PRAHA
CZECHO-SLOVAKIA
ČES
BRNO
NYIREGYHAZA
CLEVEDON
BEXHILL
BRUXELLES
KÖLN
BUDEJOVICE
CLUJ
BACAU
WASHFORD
BARTLEY
BRIGTON
BELGIUM
BRATISLAVA
ORADEA
STALIN
Black Sea
PLYMOUTH
LILLE
LUXEMBOURG
FRANKFURT
RUMANIA
STARTPOINT
SAARBRÜCKEN
WIEN
BUDAPEST
REDRUTH
STUTTGART
AUSTRIA
HUNGARY
TIMIŞOARA
BUCURESTI
LOUVETOT
ROUEN
PARIS
NANCY
STRASBOURG
MÜNCHEN
GRAZ
ALDRANS
KLAGENFURT
NOVI SAD
CRAIOVA
STALIN (VARNA)
BREST
QUIMPER
RENNES
DIJON
ZAGREB
BEOGRAD
BULGARIA
ALLOUIS
BEROMÜNSTER
LJUBLJANA
STARA ZAGORA
ISTANBUL
NANTES
FRANCE
SWITZERLAND
TRIESTE
YUGOSLAVIA
PRISTINA
POITIERS
SOTTENS
MONTE CENERI
VENEZIA
SOFIA
LIMOGES
SARAJEVO
TITOGRAD
COMOTINI
CLERMONT FERRAND
LYON
MILANO
SKOPLJE
GRENOBLE
TORINO
GENOVA
BOLOGNA
DUBROVNIK
TIRANA
THESSALONIKI
Bay of Biscay
FIRENZE
ANCONA
PESCARA
ALBANIA
KORCA
Aegean Sea
BORDEAUX
NIMES
SAN REMO
MONTE CARLO
ITALY
VOLOS
MONT PELLIER
MARSEILLE
VATICAN RADIO
ROMA
FOGGIA
BARI
GREECE
TOULOUSE
Corsica
CORFU
PAU
PERPIGNAN
NAPOLI
ATHENS
LA CORUÑA
OVIEDO
BILBAO
SAN SEBASTIAN
ANDORRA
Ionian Sea
PATRAS
AMALIAS
BURGOS
PALENCIA
LERIDA
SASSARI
CHANIA
VALLADOLID
ZARAGOZA
BARCELONA
Sardinia
NUORO
PORTO
SALAMANCA
MENORCA
CAGLIARI
PALERMO
MESSINA
Creta
MIRAMAR
COIMBRA
MADRID
CUENCA
CATANIA
CALTANISSETTA
Sicily
PORTUGAL
PAREDE
CACERES
SPAIN
MALLORCA
Balearic Islands
The Mediterranean
LISBOA
VALENCIA
ALICANTE
Malta
TUNIS
BAZA
HUELVA
GRANADA
MICHELET
CONSTANTINE
FARO
SEVILLA
MALAGA
ALGER
ALGERIA
BENGHAZI
AFRICA
TRIPOLI
GIBRALTAR
TANGIER
ORAN
HAG 58

Religious Broadcasting Organisations

Continued from page 62.

Christian Broadcasting Association, 420 Lyons Rd, Five Dock, Sydney, N.S.W., Australia. Man. Dir: Rev. V. Turner. Radio prgr. production on behalf of Protestant Churches.

Pacific Broadc. Ass. CPO 1000 Tokyo, Japan. Mgr: A. Hatori. Production and distribution of radio and tv-prgrs. & Christian records.

The Christian Broadcasting System, 91 Chongno, 2-Ka, Seoul, Korea Dir: E. O. de Camp. Operates st. HLKY.

Philippine Christian Radio Network, Dumaguete City, Philippines – Dir: C. Bernardez. Operates st's DYSR/DZCR. The South East Asia Radio Voice (50kW tr's at Dumaguete City) will begin operation in 1966).

Broadcasting and Audio Visual Aids Committee of the East Asia Christian Conference
(BAVACO), 22 Midorigaoka, Shibuya Ku, Tokyo, Japan – Secr: M. S. Ogawa.

Audio Visual Evangelism Committee, (auxiliary committee of the Hong Kong Christian Council of Churches). Providing Visual Aids and Broadc. Studio services for the related churches. 191 Prince Edward Road, Room 401, Kowloon/Hong Kong. Exec. Dir: Rev. Thomas W. Lung.

EPI: Emetteur Protestant International (international evangelical radio station) P.O. Box 1374 – 3000 Berne, Switzerland. Planned: 1 sw.st. with 2 × 250kW tr's with prgr's in English, French, German, Spanish, Portuguese, Scandinavian & Dutch. Pub: EPI News Bulletin (Quarterly) in 7 languages.

Standard Freq. & Time Signal Stations

Continued from page 64.

R. STATION WWV, WWVH, WWVB and **WWVL** (Gov.)
St. WWV, Greenbelt, Maryland, USA: Eng-in-Charge. L. Honea. St. WWVH, Box 578, Puunene, Maui, Hawaii: Eng-in-Charge. S. Katahara. WWVB/WWVL, Box 83-E, Route 2, Ft. Collins, Colo, USA: Eng-in-Charge. R. F. Carle – **L.P:** Chief Freq. and Time Broadc. Sce's. D. H. Andrews, National Bureau of Standards, Boulder, Colo, USA.

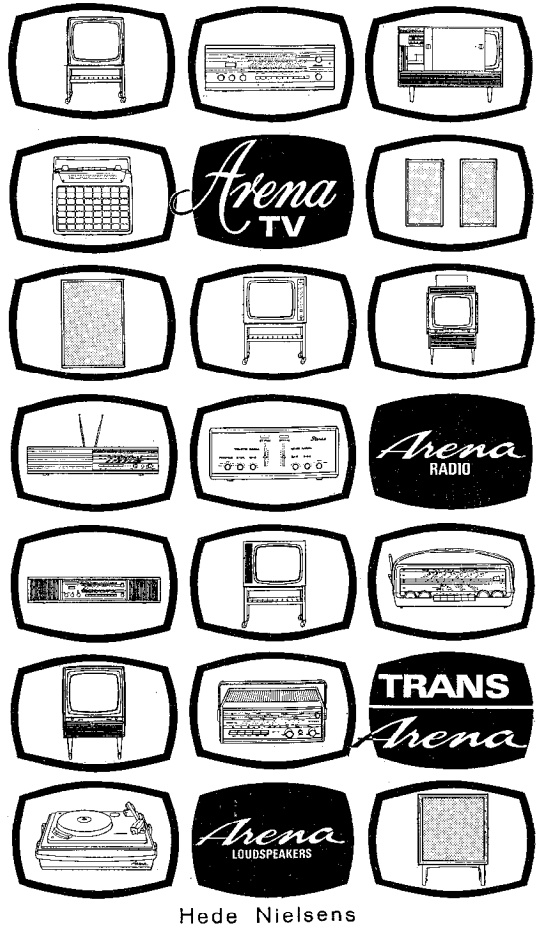
Standard Radio Frequencies:
WWV 2500kc 1kW, 5000kc 8kW, 10000kc 9kW, 15000kc 9kW, 20000kc 1kW, 25000kc 0.1kW: The broadc. are continuous, night and day, exc. from 45 min. to 49 min past each h – **WWVH** 2500kc 1kW, 5000kc 2kW, 10000kc 2kW, 15000kc 2kW: Continuous exc. from 15 min. to 19 min. past each h – **WWVB** 60kc 13kW Continuous – **WWVL** 20kc 1.8kW Continuous, except to permit exp. changes.

Program:
WWV transmits radio propagation forecasts in International Morse Code every 5 min's just preceding the voice ann's; the IUWDS "Geoalert" is broadc. in International Morse Code each h from WWV during the 19th min. and from WWVH during the 49th min. Universal Time is ann. from both st's in Intern. Morse Code each 5 min. At WWV a voice ann. of Eastern Standard Time is given each 5 min. as follows: "National Bureau of Standards, WWV, when the tone returns Eastern Standard Time will be... hours, ... minutes". At WWVH a voice ann. of Hawaiian Standard Time is given each 5 min's as follows: "National Bureau of Standards, WWVH, when the tone returns Hawaiian Standard Time will be... hours, ... minutes". WWWB transmits a special time code consisting of 10db carrier reductions each second for 0.2, 0.5 or 0.8 sec (Format on request). Transmitted phase will be advanced 45° for 5 min. each h between 10 min and 15 min after the h. No special identification will be given. WWVL identifies by keyed carrier given the call sign in Intern. Morse Code on the h and every 20 min. thereafter. Immediately following identification, the freq offset (parts in 10^{10}) is given in Intern. Morse Code by keying the carrier, the word "minus" indicating the minus sign – **V.** by QSL-card or letter. **Pub:** Prgr. sched. on request.
In addition to the 20kc carrier other exp. freq's near 20kc may be transmitted alternately or simultaneously.

THE US NAVAL OBSERVATORY, Dept. of the Navy, broadc. TS continuously or at regular intervals from a number of st's:
NPG, Mare Isl. Calif: On 114.9, 4010, 6429.5, 9277.5, 12966, 17055.2, 22635kc: 06.00, 12.00, 18.00, 24.00 – **NSS,** Annapolis, Md: On 162, 5870, 9425, 13575, 17050.4, 23650kc: 02.00, 06.00, 08.00, 12.00, 14.00, 18.00, 24.00 – **NBA:** Balboa, Can. Zone: On 24kc continuous exc. Wed 13.00–19.00; On 147.8, 5448.5, 11080, 17697.5kc: 05.00, 10.00, 17.00, 23.00 – **NPM,** Lualualei, Hawaii: On 131, 4525, 9050, 13655, 17122.4, 22593kc: 06.00, 12.00, 18.00, 24.00 – **NPN:** Guam: On 484, 4955, 8150, 13530, 17530, 21760kc at 06.00, 12.00, 18.00, 24.00.

RWM, MOSCOW – Addr: Ministère des Communications, Postales et Electriques, Moscow – **Stations:** All 20kW: 5000kc 05.00–08.00, 17.00–06.00 – 10000kc 13.00–16.00 – 15000kc 01.00–04.00, 08.30–13.06 – 20000kc. No tr on 1st and 3rd Wed of each month between 06.00 and 14.00.

ROR, MOSCOW: On 25kc at 04.00, 08.00, 12.00, 16.00, 20.00, 24.00 – **RBT, Irkutsk:** On 5280, 6775, 10900, 13900kc at 02.00, 06.00, 12.00, 14.00, 16.00, 22.00, 24.00 – **RPT, Tashkent:** On 5890, 11580, 14650kc at 10.00 and 18.00 with international time signals at mins 55–60.



Hede Nielsens Fabriker A/S - one of Denmarks leading manufacturers and exporters of radio-, and TV-sets, amplifiers, record-players, loudspeakers, etc.

Arena TV

HORSENS-DENMARK

RADIO

EUROPE

ALBANIA (People's Rep. of)

L.T: GMT+1 h – Pr.L: Albanian.

RADIODIFFUSION ET TELEVISION ALBANAISE (Gov.)
ADDR: Rue Ismail Quemal, Tirana. Te: 4307. **Cable:** Albradio
L.P: Dir: Th. Nano. Head, Foreign Rel. Dept: D. Nini.
HOME SERVICE: Tirana 1088kc 275.7m – Tirana 1358kc 221.0m.
D.PRGR: On 1358kc: W 04.30–07.00, 11.00–22.00. Sun 05.00–22.00. On 1088kc: 11.00–15.00. N: 05.30, 06.30, 11.30, 13.00, 14.00, 15.30, 17.00, 18.00, 19.00, 21.00 – **Wrp:** 20.15.
FOREIGN SERVICE: *=inactive.

kc	m	kc	m	kc	m	kc	m
1098	273.0	7265	41.29	9390	31.95	*9700	30.93
1358	220.9	9380	31.98	*9430	31.81	11715	25.61
7090	42.30						

Arabic	kc
04.30–05.00	7265, 9390
17.00–17.30	1098
21.00–21.30	1098, 7090

Bulgarian	
05.00–05.30	1098, 7090
15.30–16.00	1098, 7265
19.00–19.30	1098, 7090, 9390

English	
00.00–00.30*	7265, 9390
06.30–07.00	7265, 7090
20.00–20.30	7265, 9390
22.00–22.30	7265, 9390

French	
05.00–05.30***	7265, 9390
06.00–06.30	7265, 9390
16.30–17.00***	1098
17.30–18.00	7265
20.30–21.00	1098, 7265

German	kc
05.30–06.00	7265, 9390
17.00–17.30	7265
18.00–18.30	7265
22.00–22.30	1358, 1098, 7090

Greek	kc
04.30–05.00	1098, 7090
15.30–16.00	11715
18.30–19.00	7265
19.30–20.00	1098, 7090

Hungarian	
20.00–20.30	1098, 7090
21.00–21.30	7265, 9390

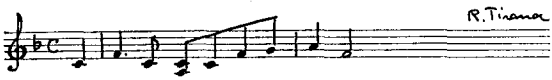
Italian	
06.00–06.30	1098, 7090
18.00–18.30	1098
21.30–22.00	1098, 7090
22.30–23.00	1098, 1358, 9390

Russian	
03.00–03.30	1358, 9390, 11715
16.00–16.30	11715
19.30–20.00	7265, 9390
20.30–21.00	7090, 9390

Serbo-Croat	
05.30–06.00	1098, 7090
16.00–16.30	1098, 7090
17.30–18.00	1098
18.30–19.00	1098

Spanish	
19.00–19.30	7265
21.30–22.00	7265, 9390
22.45–23.15**	11715
02.15–02.45**	11715

*=to No. America, **=to Latin America, ***=to Africa.
ANN: Albanian: "Ju flet Tirana". Arabic: "Huna Tirana". Bulgarian: "Goveri Tirana". E: "This is Tirana Calling". F: "Ici Tirana". G: "Hier ist Tirana". Greek: "Milun Ta Tirana". I: "Parla Tirana". Russian: "Govorit Tirana". Serbo-Croat: "Govori-Tirana". Sp: "Habla Tirana" – **INT-SIG:** 9 notes played on clarinet – V. by letter.



RADIO KUKËSI (Gov.) – **ADDR:** Drejtoria e Radio Kukesit, Kukes. **L.P:** Dir: X. Dobrosha – **HOME SCE:** Kukës 6660kc 45.04m (varies up to 150kc in freq.) 0.2kW – **D.PRGR:** 13.00–14.30, 15.00–19.30 – **ANN:** "Ju flet Kukësi" – V. by letter. Re. in French.

RADIO SHKODRA (Gov.) – **ADDR:** Drejtoria e R. Shkodrës' Shkodër – **L.P:** Dir: A. Geno – **STATION:** Shkodër 8215kc 36.52m 0.2kW – **HOME SCE:** D 13.30–14.30, 16.30–20.00 – **ANN:** "Ju flet Shkodra" or "R. Shkodra" – V. by letter. Re. in German.

RADIO KORÇA – **ADDR:** Drejtoria e R. Korçes, Korçe – **L.P:** Dir: J. Mulo – **STATION:** 1349kc 222m 0.2kW – **HOME SCE:** 12.30–14.15, 16.30–20.00 – **ANN:** "Ju flet Korça".

RADIO GJIROKASTRA – **ADDR:** Drejtoria e R. Gjirokastres, Gjirokaster – **L.P:** Dir: N. Kokona – **STATION:** 1430kc 210m 0.2kW – **HOME SCE:** 13.00–14.30, 16.00–20.30 – **ANN:** "Ju flet R. Gjirokastra".

ANDORRA

L.T: GMT+1 h – Pr.L: French, Spanish, Catalan.

RADIO ANDORRA (Priv, Comm.)
ADDR: Direction: Obispo Catala 42, Barcelona 17, Spain. Te: 2397111. **Cable:** Rapro, Barcelona – **STATION:** Roc des Anellettes, Andorre la Vieille, Principauté d'Andorre. Te: 100. **Cable:** Radioandora – **L.P:** Dir. Gen: M. Degoy. Dir. Tec: J. L. Marquet. Dir. Prgr: G. Marquet. French Dept: J. Bonis. Spanish Dept: M. Pibernat. Catalan Dept: R. Calderon. Pub. Dept: M. Rodriquez. Listeners Sce: C. Ruiz. Superv: M. Brad. Dir. Prod: C. Mailhos. Educ: A. Simon. Dir. Pub: C. Codina.
STATIONS (System: Brown, Boveri):
998 kc 300.6 m 400 kW – 5995 kc 50.04 m 25 kW.
HOME SCE: 05.00–24.00 on 998kc.
French: 05.00–13.00, 15.00–21.00. **Spanish, Catalan:** 13.00–15.00. **English/Spanish:** 21.00–24.00 – **Music & N:** W 11.00 – **Boite Postale No. 1** (dedicated records): Sun 07.30, 20.00 – **Jazz:** D 06.00.
ANN: F: "Ici R. Andorre". Sp: "Aqui R. Andorra, emisora del Principado de Andorra, Roc de las Anelletas, Andorra la Vieja Principado de Andorra".
INTERNATIONAL SCE:
L.P: Dir. Gen: M. Degoy. Dir. Tec: P. Cousse. Dir. Prgr: A. Rossel. English Dept: M. Niquet. German Dept: M. Zimmerman. Italian Dept: A. Dolade. Swedish Dept: C. Carlson. Pub. Dept: C. Valencia. Listeners Sce: J. Tellez. Superv: A. Piffaré. Dir. Prgr: J. M. Mas.
D.PRGR: 21.00–24.00 on 5995kc in English, German, Italian, Swedish.
ANN: F: "Ici R. Andorre International". E: "This is R. Andorra International". Sp: "Aqui R. Andorra Internacional, Emisora del Principado de Andorra. G: "Hier ist R. Andorra" – **INT-SIG:** Gong low. Open and close down "Hymne national Andorran" – V. by QSL-card or letter. Rp. Recordings accepted – **PUB:** Prgr.schedule (weekly) illustrated sheet "Aqui Andorra" (monthly).
Collins & Ampex: studio equip.

RADIO DES VALLEES-ANDORRE I (Comm.)
ADDR: P.O. Box 7, Andorra-la-Vielle. **Cable:** Radioval. Te: 7.
STATIONS: 818kc 366.8m 300kW – **FM:** 98.9Mc 0.05kW.
HOME SCE: French: 05.45–13.00, 15.00–21.00, 21.05–23.00 – **Spanish/French:** 13.15–15.00 – **Catalan:** 13.00–13.15, 21.00–21.05.
ANN: F: "R. des Vallees-Andorre I". Catalan: "R. de les Valls-Andorra I". Sp: "R. de los Valles-Andorra I" – **INT-SIG:** Xylophone – V. by QSL-card and letter. Rp – **PUB:** Prgr.schedule (weekly), journal (every 2 months).
Telefunken A.G, Germany, studio equip. (recorders).

AUSTRIA

L.T: GMT+1 h – Pr.L: German.

ÖSTERREICHISCHER RUNDFUNK (*Gesellschaft m.b.H.*)
FI: By license payments and adv – **AD:** Prgr. I: 70 min. per day; Prgr. II: 15 min. per day; Prgr. III: 8 h 53 min. per day.
ADDR: Österreichischer Rundfunk, Wien IV, Argentinierstr. 30a. **Cable:** Rundfunk Wien. Te: 656661 – **L.P:** Dir. Gen, Adm: J. Scheidl. Vice Dir. Gen, Dir. Tec: Dipl. Ing. W. Füchsl. Dir. Prgr: Prof. Dr. A. Übelhör.
STUDIOS: R. Graz, Zusertalgasse 14a, Graz III. **Cable:** Radio Graz. P. Goritschnig – **R. Klagenfurt:** Sponheimerstr. 13, Klagenfurt. **Cable:** Radio Klagenfurt. P. Goritschnig – **R. Linz:** Obere Donaulände 1, Linz. **Cable:** Radio Linz. A. Schwetz – **R. Salzburg:** Franziskanergasse 5, Salzburg. **Cable:** Radio Salzburg. Dr. P. Becker – **R. Tirol:** Landhaus Neubau, Innsbruck. **Cable:** Radio Tirol. Dr. J. Scheidle – **R. Vorarlberg:** Neues Rathaus, Dornbirn. **Cable:** Radio Voralberg. Dr. W. Tölzer – **R. Wien:** Argentinierstr. 30a, Wien IV. **Cable:** Radio Wien. Dr. E. Glaser, H. Hasslinger.

HOME SERVICE

FIRST PRGR: W 04.30–22.00(Sat 23.05). Sun 05.00–22.00.

Medium W:	kc	m	kW		kc	m	kW
Aldrans I	629	476.9	25	Salzburg I	773	388	1
Lauterach I	629	476.9	25	Linz	890	337.1	20
Lienz I	629	476.9	1	Graz	1394	215.2	25
Klagenfurt I	728	412.1	25	Wien I	1475	203.4	150

Low Power M.W. (0.05kW, exc. where indicated):
566kc: Bad Ischl, Feistritz (0.1), Greifenburg, Maria Pfarr, Mühlbach, Radstadt, Neukirchen – **647kc:** Aigen, Bischofshofen, Bleiburg, Gloggnitz, Neumarkt, Matrei, Ried, Radenthein – **773kc:** Bad St. Leonhard, Hergamor, Lend, Mariazell, Oberdrauburg, St. Michael/Lungau, Leoben (0.1) – **1052kc:** Krems, Neunkirchen – **1124kc:** Bruck/Mur (0.1), Eisenerz, Hofgastein, Imst, Judenburg (0.1), Kufstein* (0.015), Mayrhofen, Tamsweg, Gmünd*, Kötschach (0.1), Mürzzuschlag (0.1), Villach (0.1), Obervellach, Rottenmann – **1313kc:** Kindberg, Ehrwald, Friesach, Haslach, Knittelfeld (0.1), Liezen,

RADIO ANDORRA

300,60 m 400.000 W

Roc des Anelletes · Andorra-la-Vieille
Principauté d'Andorre

Tels. 100 y 300 · Cable: "Radioandorra-Andorra"

Völkermarkt, Wolfsberg, Murau, Otz, Trieben, **1394kc**: Admont, Bludenz, Spittal/Drau (0.2), Zell/See (0.2), Eisenkappel, Oberwälz, Neuberg, Längenfeld, Hopfgarten, Bad Goisern, Zell am Ziller – **1457kc**: Amstetten, Schruns, Wr. Neustadt – **1475kc**: Saalfelden, Schwarzach, Windischgarten, Wörgl – **1484kc**: St. Pölten (0.2) – **1493kc**: Kitzbühel, Landeck, Mittersill, Reutte – **1546kc**: Abtenau, Bad Ausse, Scheifling, Silian – **1594kc**: Braunau, Feldkirchen, Zwettl – *=Operated by Postal adm.

FM:	ch	Mc	kW		ch	Mc	kW
Dobratsch I	11	90.4	0.15	Gaisberg I	26	94.8	50
Sonnwendst. I	11	90.4	2.5	Lichtenberg I	27	95.2	100
Jauerling I	15	91.4	50	Schöckl I	28	95.4	50
Hahnbaum I	16	91.8	0.1	Rauchkofel	30	95.9	1
Stubnerkogel I	17	92.1	0.1	Schmittenhöhe	32	96.6	0.04
H. Kaibling I	17	92.1	4	Pyramidenkogel I	36	97.8	10
Patscherkofel I	18	92.5	50	Kahlenberg I	36	97.9	50
Königsberg	20	93.1	0.03	Kaunertal	36	97.9	0.04
Gschwandkopf	21	93.3	0.1	Mugel I	39	98.7	20
Pfänder I	21	93.3	50				

N: W: 04.45, 05.45, 06.45, 11.30, 15.45, 19.00, 21.00. Sun: 05.45, 07.00, 08.00, 11.30, 16.00, 19.00, 21.00 – "**Blick in die Welt**": D 21.10. **Slovenian**: (Klagenfurt only): Sun 06.30–07.00, Mon–Fri 13.15–13.55 (Mon also 17.00–17.15), Sat 08.00–09.00, 17.25–17.45 (fortnightly).
ANN: "Hier ist der Österreichische Rundfunk, Erstes Programm, von Radio... (name of studio) hören Sie..." – **INT-SIG**: Extract from ballet-music from "Rosamunde" by Franz Schubert.

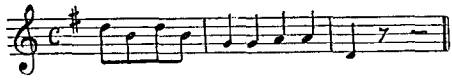
SECOND PRGR: W 04.30–23.05. Sun 05.00–23.05.

Medium Waves:	kc	m	kW		kc	m	kW
Aldrans II	520	576.9	10	Dobl	1025	292.7	100
Lienz II	520	576.9	10	Kronstorf	1025	292.7	100
Klagenfurt II	584	513.7	25	Lauterach II	1025	292.7	10
Salzburg II	584	513.7	10	Mariapfarr II	1025	292.7	5
Wien II	584	513.7	150				

Low Power M.W. (0.05kW): **520kc**: Bludenz 2, Murau 2 – **584kc**: Mayrhofen 2 – **962kc**: Ehrwald, Neukirchen 2, Neumarkt 2, Eisenerz – **1025kc**: Hergamor 2, Ötz 1, Kitzbühel 2, Eisenkappel, Mühlbach, Hopfgarten, Längenfeld – **1142kc**: Bad Aussee 2, Landeck 2, Reutte 2, Saalfelden 2, Abtenau, Scheifling 2, Neuberg.

FM:	ch	Mc	kW		ch	Mc	kW
Mugel II	2	87.6	20	Schmittenhöhe	18	92.4	0.04
Königsberg	2	87.6	0.03	H.Kaibling II	31	96.3	4
Gschwandkopf	2	87.7	0.1	Stubnerkogel II	31	96.3	0.1
Schöckl II	7	89.2	1.2	Patscherkofel II	31	96.4	15
Rauchkofel	8	89.3	1	Jauerling II	33	97.0	50
Pfänder II	9	89.7	2	Hahnbaum II	34	97.2	0.1
Gaisberg II	13	90.8	50	Lichtenberg II	35	97.5	100
Kahlenberg II	16	91.9	15	Dobratsch	23	93.8	0.15

N, Wrp: W 05.00, 06.00, 07.00, 12.00, 14.00, 16.00, 18.00, 21.00, 22.00, 23.00, Sun 05.00, 06.00, 07.00, 12.00, 16.00, 18.00, 21.00, 22.00, 23.00. "**Eine Woche Weltgeschehen**": Sun 18.10 – **L.L: English**: Fri 20.40–20.55 – **Esperanto**: Tues 16.50.
ANN: "Hier ist der Österreichische Rundfunk, Zweites Programm, von Radio... (name of studio) hören Sie..." – **INT-SIG**: Extract from Opera "Die Zauberflöte" by W.A.Mozart.



THIRD PRGR: 16.10–23.00 (test). Other times relay 2nd prgr.

FM:	ch	Mc	kW		ch	Mc	kW
Hahnbaum III	4	88.2	0.1	Schöckl III	14	91.2	50
*Sonnwendstein II	4	88.2	2.5	Pyramidenk. III	19	92.8	10
Patscherkofel II	5	88.5	50	H. Kaibling III	24	94.3	4
Stubnerkogel III	5	88.5	0.1	Pfänder III	37	98.2	50
Schmittenhöhe II	6	88.8	0.04	Königsberg	38	98.5	0.03
Lichtenberg III	6	88.8	100	Gaisberg III	40	99.0	50
Jauerling III	8	89.4	50	Rauchkofel	41	99.3	1
Mugel III	9	89.7	20	*Kahlenberg III	43	99.9	50
Gschwandkopf	9	89.8	0.1	Dobratsch III	44	100.3	0.15

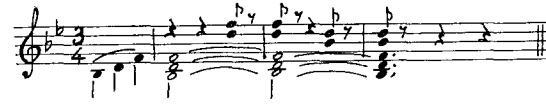
*=Stereo-Testprgr: Mon–Fri 08.00–10.00, D 16.10–19.00.
PUB: "Radio Österreich", weekly prgr. sched. Four times a year: "Aus dem Programm" – free on request.
SHORT WAVES: Stations 1/50kW. Call: OEI---. Test Prgr's.

kc	m	kc	m	kc	m	kc	m	kc	m
6000	50.00	9525	31.50	11785	25.46	15410	19.47	17810	16.84
6155	48.74	9610	31.22	11970	25.06	17750	16.90	17855	16.80
7245	41.41	9770	30.71	15240	19.69	17805	16.85	17890	16.77

Schedule 7/11-65–6/3-66

To Europe:	kc	kW	st.	To N.East	kc	kW	st.
04.30–23.00	6000	1	A	06.00–09.00	15410	20	F
05.00–09.00	6155	50	Mo	11.00–14.00**	11785	10	D
05.00–09.00*	6155	4	K	17.00–19.00***	9610	10	D
09.00–17.00	6155	1	M	**To India/Indonesia**			
09.00–17.00*	6155	50	Mo	05.00–07.00*	17805	50	Mo
17.00–19.00	6155	50	Mo	13.00–15.00*	17890	50	Mo
19.00–22.00	6155	4	K	**To Australia/NZ**			
17.00–22.00*	6155	4	K	09.00–11.00*	17810	50	Mo
To Europe/N. East				**To Japan**			
06.00–09.00	7245	4	K	11.00–13.00*	11970	50	Mo
06.00–09.00*	7245	1	M	**To So.Africa**			
09.00–13.00	7245	50	Mo	07.00–09.00*	17855	50	Mo
09.00–13.00	9770	4	K	15.00–17.00*	17750	50	Mo
13.00–14.00	7245	4	K	**To So.America**			
13.00–16.00	9770	50	Mo	17.00–19.00*	15240	50	Mo
09.00–14.00*	7245	4	K	00.00–02.00	9525	20	F
09.00–17.00*	9770	1	M	02.00–05.00	9525	50	Mo
14.00–17.00	7245	1	M	**To No.America (East)**			
17.00–19.00	7245	4	K	22.00–23.00***	6155	10	D
14.00–19.00*	7245	1	M	22.00–23.00	9770	50	Mo
To No.Af/N.East				23.00–04.30	6155	10	D
09.00–11.00	11785	1	M	23.00–02.00	9770	50	Mo
14.00–17.00	11785	4	K	02.00–04.00	9770	20	F

*=Mon, Wed, Fri only – **=Sat, Sun only – ***=Sun only – A=Aldrans (Tirol); D=Deutsch-Altenburg; F=Fleckendorf; K=Kronstorf; M/Mo=Moosbrunn.
LANGUAGE LESSONS: "Learning German in Austria". **In English**: Tues, Sat 18.30 (to Europe); Sat 18.30 (to Near East); Wed, Fri 08.30 (to So.Africa); Mon, Wed 09.00 (to Australia); Mon, Wed 11.30 (to Japan); Mon, Wed 14.30 (to India/Indonesia); Sun, Tues 00.30 (to No & So.America) – **In French**: Sat, Sun 17.30 (to Europe & Near East); Mon, Fri 15.00 (to So. Africa); Thurs, Sat 00.30 (to No & So. America) – **In Spanish**: Sat, Sun 14.30 (to Europe); Wed, Fri 00.00 (to No & So. America) – **In Russian**: Sun, Thurs 16.30 (to Europe) – **In Arabic**: Sat, Sun 12.30, Sat 18.00 (to Europe & Near East).
ANN: "Hier ist der Kurzwellendienst des Österreichischen Rundfunks" – **INT-SIG**: "An der schönen blauen Donau" Waltz by Joh. Strauss.



AKG, Austria, delivered studio equip. (recorders, microphones) to Vienna, Salzburg. WSW, Austria: 150 50W tr's. antennas, studio equipment.
Kathrein Antennen, Germany, delivered FM-antennas.
Telefunken AG, Germany, delivered 3×10kW FM tr's.
Brown Boveri, Switzerland, delivered mw-tr's: Bisamberg 2×240kW, Klagenfurt 2×25kW, Graz 25kW, Innsbruck 25kW, Dornbirn 25kW, Vienna 25kW, Salzburg 1kW.
Wilhelm Franz KG, Germany, delivered EMT studio equipment.

AZORES (Portuguese)

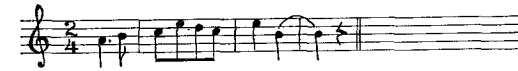
L.T: GMT−2 h (Su: −1 h) – **Pr.L**: Portuguese.

EMISSOR REGIONAL DOS ACORES (Gov.)

ADDR: Av. Gasper Fructuoso, Ponta Delgada, S. Miguel. **Te**: 22624.
STATION: CSA97 4865kc 61.66m 1kW.
HOME SCE: 14.00–15.00, 20.00–24.00 – **N**: 14.30, 22.30.
ANN: "Aqui Portugal, Ponta Delgada, Emissor Reg. dos Açores da Emissora Nacional" – **INT-SIG**: Chimes – **V.** by letter or QSL-card.

R. CLUB DE ANGRA (Comm.)

FI: By adv – **ADDR**: Rua Conselheiro Anastacio de Bettencourt, Angra do Heroismo, Ilha Terceira. **Te**: 219 – **L.P**: St.Mgr: F. Medina Gil. Dir. Tec: J. E. Fernandez.
STATION: CSB80 1394kc 215.2m 1kW.
HOME SCE: W 08.00–11.00, 13.00–15.00, 19.00–24.00. Sat 08.00–11.00, 13.00–24.00. Sun 08.00–24.00. **N**: 09.45(W), 12.00(Sun), 14.00(W), 20.00, 22.45 – ANN: "Aqui estação CSB80 de R. Club de Angra (A Voz da Terceira)" – **INT-SIG**: Viola.



V. by letter. Recordings accepted – **F.PL**: Increase power, SW, FM.

EMISSORA DO CLUBE ASAS DO ATLANTICO (Comm.)

FI: By adv – **ADDR**: Aeroporto de Santa Maria. **Te**: 285. **Cable**: Asas Asmaria – **L.P**: Pres: Dr. R. Couto. Dir. Tec: A. Frazão.

HOME SCE: CSB81 1570kc 191m 1kW: W 12.00–16.00, 19.00–02.00. Sun 11.00–02.00. N: 13.00, 21.00, 22.00 – **Wrp:** 14.00, 16.00, 19.00, 02.00.
ANN: "Estacão Emissora do Clube Asas do Atlantico" – **V.** by QSL-card or letter – **INT-SIG:** Opens with music played on a Portuguese string instrument (Viola) and guitar.
ARMED FORCES RADIO & TV SCE: See USA.

BELGIUM

L.T: GMT+1 h – **Pr.L:** French, Dutch, German.

RADIODIFFUSION-TELEVISION BELGE (R.T.B.) - BELGISCHE RADIO EN TELEVISIE (Gov.)

FI: By state grant-in aids – **ADDR:** Place Eugène Flagey 18, Bruxelles 5. **Cable:** RTB or BRT. **Te:** 49.60.50.
L.P: Emissions francaises: Dir. Gen: R. Wangermée. Prgr. Dir: M. Hankard. Prgr. Dir. (TV): L. P. Kammans – **Nederlandse uitzendingen:** Dir. Gen: P. Vandenbussche. Prgr. Dir: C. Mertens. Prgr. Dir. (TV): B. Jansens – **Services Communs. Gemeenschappelijke diensten (common sce's):** Tec. Dir. Gen: F. Mortiaux. Chief Eng's: G. Gourski and M. De a Fonteyne. Adm. & Finance Dir. Gen: F. Hoosemans – **International Sce.s:** Exec. Dir: F. Zoete. **German Prgr:** Head: Mrs. I. Janetzky – **Cultural Services** (including Foreign Relations): Dir: L. Wallenborn.

HOME SERVICE:

FRENCH NETWORK

Bruxelles I (Nat.)	620 kc	483.9 m	150 kW	(Wavre)
Bruxelles IV (Reg.)	1124 –	266.9 –	10 –	(Aye, Houdeng)*
	1484 –	202.2 –	5 –	(Liège)*

Anlier	(Nat.)	87.6 Mc	10 kW	Bruxelles	(3. prgr.)	96.1 Mc	2 kW
Houdeng	(Reg.)	92.3 –	50 – *	Houdeng	(3. prgr.)	99.1 –	50 –
Ougrée	(Reg.)	90.5 –	50 – *	Liège	(3. prgr.)	99.5 –	10 –
Anlier	(Reg.)	91.5 –	10 – *	Anlier	(3. prgr.)	94.1 –	10 –

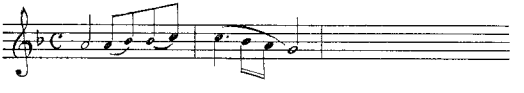
* Prgr's from studios in Mons, Namur, Luxembourg, Liège.
FM-Ougrée: 88.5Mc 10kW German Prgrs.
620kc rel. on FM 87.6Mc: W 05.30–22.00(Sat 23.00). Sun 05.30–23.00. **N, Wrp:** 05.30, 06.00, 07.00, 08.00, 09.00, 11.00, 12.00, 13.00, 15.00, 16.00, 17.00, 18.30, 21.00, 21.55. Sat, Sun 22.55 – **Wrp:** 10.50.
1124kc rel. on FM 92.3, 90.5, 91.5Mc: 09.00–14.30, 17.00–22.00.
Symphony Concert: Tues 19.00–21.00.

DUTCH NETWORK

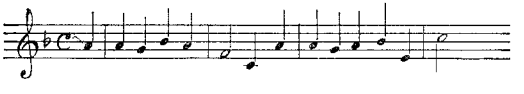
Brussels II (Nat.)	926 kc	324.0 m	150 kW	(Wavre)
Brussels III (Reg.)	1484 –	202.2 –	0.5 –	(Kortrijk)
	1511 –	198.5 –	20 –	(Veltem)
Bredene	1594 –	188.2 –	5 –	

FM		Mc	kW			Mc	kW
Aalter	(Nat.)	95.7	10	Veltem	(3. prgr.)	89.5	50
Veltem*	(Reg.)	93.7	50	Aalter	(3. prgr.)	90.4	10
Genk*	(Reg.)	97.9	10	Genk	(3. prgr.)	89.9	10
Aalter*	(Reg.)	98.6	50				

* Prgr's from studios in Kortrijk, Ghent, Hasselt, Antwerpen.
926kc (rel. on FM 95.7Mc):
W 05.30–22.00(Sat 23.00). Sun 05.30–23.00 – **N, Wrp:** 05.30, 06.00, 07.00, 08.00, 11.30, 12.00, 16.00, 18.00, 21.00, 21.55. Sat, Sun 22.00– **Wrp:** 05.30, 07.00, 11.30.
1511kc (rel. on FM 93.7, 97.9 & 98.6Mc): 09.00–13.00, 16.00–22.00.
Symphony Concert: Fri 19.00–21.00.
D 16.00–18.00 or 17.00–19.00 varied prgr. and **N.**
ANN: F: "Radiodiffusion-Télévision Belge". **Dutch:** "Belgische Radio en Televisie". **G:** "Belgischer Fernseh-Rundfunk" – **INT-SIG:** Xylophone. F. Network: Extract from Grety's famous melody "Ou peut-on etre mieux."



Dutch Network: The first movement of "Beinaarlied" (Extract from Ruben's cantata by Peter Benoit).



V. by QSL-card or etter. Recordings accepted.

INTERNATIONAL SERVICE

ADDR: Directions of Overseas Sce. of R.T.B./B.R.T., 18 Place Eugène Flagey, Brussels 5. **Cable:** RTB Mondial, **Te:** 496050 – **L.P:** Exec. Dir: F. Zoete. Heads Shortwave: J. Vandenbranden, M. Depré, J. Mertens. Transcription & Public Relations: M. Swaenepoel, W. Sanders.

STATIONS: ORU Wavre, ORU 3/ORU4=100kW, ORU5=20kW.

kc	m	kc	m	kc	m	kc	m	kc	m
6180	48.54	9615	31.20	11825	25.37	15335	19.56	17860	16.79
9515	31.53	9745	30.78	11870	25.27	17750	16.90	21510	13.90

Abbreviations: A=French/Dutch; B=French/Dutch/Congolese; C=Congolese; I=Africa; II=No. America; III=So. America; IV=So. Europe; V=Far East – Freq's in fat types 100kW. Others 20kW.

Times	L	Area	Kc
10.00—12.00	B	I	15335, **17860, 21510**
12.15—13.00 a	A	IV	11825
		V	**17750**
		I	**17860**
13.30—15.45 b (Sat)	C	I	15335, **17860, 21510**
13.30—16.30 b (Sun)	A	I	15335, **17860, 21510**
16.45—17.15 b (Sun)	A	I	**9515, 9745,** 17860
16.00—17.15 (W)	C	I	**9515, 9745,** 17860
17.15—18.30	C	I	**9745**
17.30—18.15	A	I	**9515,** 17860
18.30—21.00 c	A	I	**9515,** 9745, **17860***
21.15—23.00 d	A	III	9615, **9745, 11870**
23.15—01.00 d	A	II	**9515, 9745,** 11860

a) for missionaries and seamen (alternatively in French and Dutch) b) Sat (Congolese), Sun (Sport, French/Dutch); c) for Belgians and Africans; d) for Belgian seamen and Belgians in the world, alternatively in French and Dutch.
N: French: 10.30, 11.30, 19.30, 20.00. **Dutch:** 10.15, 11.40, 19.00, **ANN: F:** "Ici Bruxelles, Radiodiff-Television Belge, Emission Mondiales". Dutch: "Hier is Brussel, de Belgische Radio en Televisie Wereldomroep" – **SIGNALS:** Starting: Xylophone – **INT-SIG:** Gevaerts "Vers l'avenir". The signal at the start of each broadcast: "Ou peut-on être mieux" – Closing: Belgian National Anthem – **V.** by QSL-card. Recordings accepted.
Brown Boveri, Switzerland: 2×150kW mw-tr's.
Telefunken, Germany: 20kW tr.

BULGARIA (Peoples Rep. of)

L.T: GMT+2 h – **Pr.L:** Bulgarian.

BULGARIAN RADIO AND TELEVISION (Gov.)

FI: By state – **AD:** D 13.30–14.00.
ADDR: Bulgarian Broadcasting at the Committee of Culture and Art, 4, Bd Dragan Zankov Str, Sofia. **Te:** 7-10-44. **Cable:** Bulgarradio. **Telex:** 541 – **L.P:** Dir. Gen: N. Ganchovsky. Gen. Mgr: R. Kamensky. Dir. Tec: J. Jerkov. Chief of Foreign Rel. Dept: Kr. Vladov. Dir Prgr: V. Nikolov.

HOME SCE:	kc	m	kW		kc	m	kW
Sofia II	593	506	200	Kardjali	1160	259	30
Plovdiv	746	402	30	Stara Zagora	1223	245	30
Stolnik	773	388	30	Kolarovgrad	1295	232	30
Sofia I	827	362.7	100	Pavlovo	1484	202.2	7
Blagoevgrad	863	348	30	Sofia III	7670	39.11	15
Varna	1124	267	10				

1st prgr: 03.25–08.37 on 593/1124/1223kc, 08.37–09.55 on 593/827/7670kc, 09.55–14.55 on 593/827/1124/1223/7670kc, 14.55–20.30 on 593kc, 20.30–22.00 on 593/1124/1223kc. **N:** 03.30, 04.30, 06.00, 07.00, 08.30, 10.30, 12.00, 14.00, 15.00, 16.00, 16.55, 18.30, 20.30, 21.50 – **L.L: Russian** Mon 16.30, **French** Fri 16.30 – **Folklore Music:** Mostly at 04.00–06.00, 10.00–14.00, 16.00–18.00. **Symphony:** Tues, Thurs 17.30.
2nd prgr: 07.00(Sun 08.30)–20.30 on 827/1124/1223kc.

FOREIGN SERVICE: Stations:

kc	m	kW	kc	m	kW	kc	m	kW
827	362.7	100	6245	48.04	50	9700	30.93	120
1160	259.3	30	7255	41.35	50	9765	30.74	50
1295	232.0	30	7670	39.11	15	11715	25.61	100
5940	50.51	120	9560	31.38	50	15312	19.59	50
6070	49.42	100						

Schedule October 65–April 66

TO EUROPE/NEAR EAST

Arabic	kc	French	
04.00–04.30	827, 5940, 7670	19.00–19.30	6070
04.30–05.30[1]	827, 5940, 7670	21.00–21.30	6070
11.30–11.45	9700, 11715, 15312	**German**	
17.00–17.55	6070, 7255, 9700	20.00–21.00	6070
20.00–20.30	5940, 7255, 7670		
Bulgarian		**Greek**	
11.00–11.10	6070, 7255, 9700	04.30–05.00[4]	827, 5940, 7670
22.00–22.10	5940, 7255, 7670	05.30–06.30[3]	827, 5940, 7255
	9700, 11715	06.00–06.30[4]	827, 1160, 5940
English			7670
19.30–20.00	6070	09.00–10.00[3]	6070, 7255, 9700
21.30–22.00	6070	12.00–12.30[4]	1160, 6070, 7255
00.00–01.00[2]	6070		9700
Esperanto[5]		16.30–16.55	6070, 7255, 9700
20.05–20.30	6245, 11715	19.00–19.30	5940, 7670
23.30–23.55	6070, 7255	20.30–21.00	827, 5940, 7670

Italian	kc
18.00–18.30	6070, 6245, 7255
20.30–21.00	6245, 7255
22.00–22.30	827, 6070

Macedonian	
05.00–05.30[4]	827, 5940, 7670
06.30–07.30[3]	827, 5940, 7670
21.00–21.30	827, 7670

Serbo-Croatian	
07.30–08.30[3]	827, 5940, 7670
21.30–22.00	827, 5940, 7670

Spanish	
22.30–23.00	7255, 9700, 11715

Turkish	
05.30–06.00[4]	827, 962, 1160 1295, 5940, 7670
05.30–06.30[3]	962, 1160, 1295 5940, 7670
10.00–11.00	1160, 1295, 6070 7255, 9700
16.00–16.30	1160, 1295, 6070 7255, 9700
18.30–19.00	5940, 7255, 7670
19.30–20.00	1160, 5940, 7670

TO AFRICA

English	kc
19.05–19.30*	11715, 15312
21.05–21.30**	7255, 9700, 11715

French	
19.30–20.00*	11715, 15312
21.30–22.00**	7255, 9700, 11715

*=to Ea. Africa
**=to We. Africa

TO NORTH AMERICA

Bulgarian	kc
23.30–24.00	6070
01.00–01.30	6070

English	
00.00–01.00	6070
04.00–04.30	6070

TO NO. & CE. AMERICA

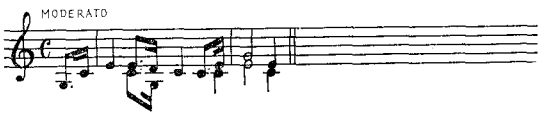
Spanish	kc
02.00–02.30	9560, 7255
04.30–05.00	6070

TO SO. AMERICA

Bulgarian	kc
23.00–23.25	7255, 9700, 11715
00.30–01.00	9560, 7255

Spanish	
23.00–23.30	7255, 9700, 11715
00.00–00.30	9560, 7255

[1] Sat only; [2] Concert (also for No. America); [3] Sun only; [4] exc. Sat.
DX-PRGR: English: Fri 19.30, 21.30 (to Gt. Britain); Sat 00.00, 04.00 (to USA); **German:** 1st & 3rd Sun 20.00; **French:** 1st Sun at 21.00; **Spanish:** 2nd Thurs 22.30, Fri 00.00.
ANN: Home Sce: "Govori Sofia" – Foreign Sce: E: "This is Sofia, Bulgaria Calling". F: "Ici Sofia, Radiodiff-Television Bulgare". Tu: "Burasi Sofia radiosu". Gr: "Milai i Sofia". G: "Hier spricht Sofia Bulgarian". I: "Que é R. Sofia". Arabic: "Huna Sofia". Sp: "Habla Sofia" – **INT-SIG:** Youth March played on organola.



V. by QSL-card or letter. Recordings accepted – **PUB:** Prgr.schedule.
Wilhelm Franz KG, Germany: EMT studio equip.
AKG, Austria: Microphones – WSW, Austria: Studio equipment.

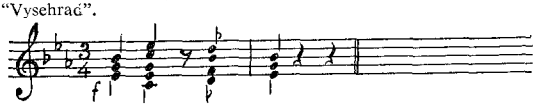
CZECHOSLOVAKIA

L.T: GMT+1 h – Pr.L: Czech, Slovak.
CESKOSLOVENSKY ROZHLAS (Gov.)
FI: By license payments – **AD:** Tues 17.25, Mon–Fri 14.55, Sat 16.35.
ADDR: Czechoslovak Radio, Praha 2, Vinohradska 12. **Cable:** Radiopraha. **Te:** 2115 – **L.P:** Dir. Gen: K. Hoffmann. Dep. Dir. Gen: Dr. M. Marko. Dept. Dir. Gen: R. Behal (Prgr), Dep. Dir. Gen: K. Hrabal (Foreign Sce). Dep. Dir. Gen: M. Junek (Engineering). Dep. Dir. Gen: J. Janousek (Adm). Head Foreign Rel: K. Reif.

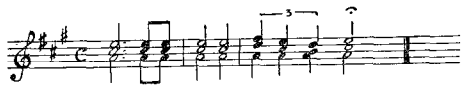
HOME SERVICE: Medium Waves

Name	kc	m	kW		kc	m	kW
ČS I	272	1102.9	200	Bratislava	1232	243.5	100
Praha	638	470.2	150	ČS I	1286	233.3	100
Bratislava	701	427.2	100	Praha	1484	202.2	2
Praha	953	314.7	100	Bratislava	1484	202.2	2
Praha	953	314.7	15	ČS I	1520	197.3	1
Bratislava	1097	273.5	150	Ostrava	1594	188.0	2
FM:		Mc	kW			Mc	kW
Praha		68.96	4	No-Moravia		69.08	4
		66.83	4			66.32	4
East Bohemia		69.35	4	West Slovakia		68.84	8
		67.22	1			66.98	8
No. –		70.58	4	Mid. Slovakia		69.68	8
		72.20	4			72.50	8
We. –		69.56	8	East Slovakia		68.87	8
		67.34	8			66.38	8
So. –		70.07	8	Zilina		69.50	1
		71.63	8			71.60	1
Mid-Moravia		69.86	8	Tatry		69.20	1
		71.87	8			67.28	1

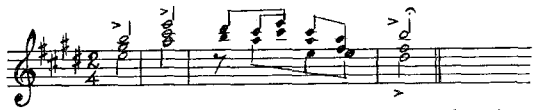
ČS I: Czech, Slovak: D 03.30–23.00. **N, Wrp:** 03.30, 04.30, 05.30, 06.30, 09.00, 11.30, 17.00, 20.00, 22.00; Sun: 05.00, 06.30, 09.00, 12.00, 17.00, 20.00, 22.00 – **Night concerts:** Tues, Thurs, Fri, Sat 22.15–23.00 – **L.L: Spanish:** Tues 10.20–10.40, Thurs 17.05–17.25. **French:** Fri 21.00–21.20.
PRAHA: Czech: 03.30(Sun 05.00)–01.00. **N, Wrp:** W 03.30, 04.00, 04.30, 05.00, 06.00, 08.00, 10.00, 12.00, 14.00, 16.00, 18.00, 21.00, 22.50, 00.55. Sun: 05.00, 06.00, 08.00, 11.00, 18.00, 21.00, 22.50, 00.55 – **L.L: Russian:** Wed 15.30–15.45. **Spanish:** Thurs 15.40–16.00 – **Night Concerts** (with multilingual ann): Mon, Wed, Sun 22.00–22.50. **Bulgarian:** On 1520/1286kc: Sat 16.30–17.00 – **Polish:** On 1520kc: W 15.50–16.00, Tues 10.30–11.00 – **German:** On 701/1520kc: W 16.00–16.15, Sun 08.00–09.00.
BRATISLAVA: N, Wrp: W 03.30, 04.00, 05.00, 06.00, 08.00, 10.00, 12.00, 14.00, 16.00, 18.00, 21.00, 22.55. Sun 05.00, 06.45, 11.30, 18.00, 21.00, 22.55 – **L.L: Russian:** Thurs 14.45–15.00 – **Hungarian:** Mon–Fri 06.00–06.15, 06.50–07.00, 11.00–12.00, 14.00–15.00 + Thurs 09.00–10.00. Sat 06.00–06.15, 06.50–07.00, 11.00–15.00. Sun 07.00–15.00 – **Ukrainian:** Mon–Fri 06.15–06.25, 15.00–15.30. Fri 09.20–09.55. Sat 06.15–06.25, 15.00–16.00. Sun 06.00–06.45, 13.00–13.40.
INT-SIG:
Praha: The two opening bars of Smetana's symphonic Poem "Vysehrać".



CS: Fanfares from a March by V. Dobiás.



Bratislava: Fanfares from a March by B. Urbanec:



AKG, Austria: delivered studio equip. (recorders, microphones).
Wilhelm Franz KG, Germany: EMT studio equip.

FOREIGN SERVICE

100kW tr's exc. 1079kc=150kW.

kc	m	kc	m	kc	m	kc	m
1097	273.5	7115	42.16	9560	31.38	15285	19.63
1286	233.3	7285	41.18	9795	30.63	15448	19.42
5930	50.59	7345	40.85	11960	25.08	17825	16.83
6055	49.55	9505	31.56	11990	25.02	21450	13.99
6135	48.90	9550	31.41	15230	19.70		

TO EUROPE

English	kc
07.00–08.00	6055
12.00–12.30	9560, 11960, 15285
15.30–16.30	6055
19.00–19.30	5930, 7345

French	
11.00–12.00	6055, 9505

German	
08.00–09.30	6055, 9505
09.30–11.00*	6055, 9505

Italian	
12.00–13.00	6055, 9505
13.00–14.30**	6055, 9505
17.00–17.30	5930, 7345

Spanish	
12.30–13.00**	6135, 11960, 15285
13.00–13.30	6135, 11960, 15285
18.30–19 00	5930, 7345

* to Austria; ** Sat/Sun only

TO AFRICA

Arabic	kc
16.30–17.30	7285, 9795, 11990
19.30–20.30	5930, 7345, 9795, 11990

English	
15.30–16.30	6055, 7345, 9550 11990, 15285
17.30–18.30	5930, 7285, 7345 9795, 11990

French	
18.30–19.30	7285, 9795, 11990
20.30–21.30	5930, 7345, 9795 11990

Swahili	kc
15.00–15.30	6055, 7345, 9550 11990, 15285

TO FAR EAST & AUSTRALIA

English	kc
07.00–08.00	9505, 15230, 15285, 21450

TO NO. AMERICA

Czech/Slovak	kc
13.30–14.00***	15285, 15448, 17825
03.00–03.30	5930, 7115, 7345 9795, 11990

English	
14.00–15.00***	15285, 15448, 17825
01.00–02.00 } 03.30–04.30 }	5930, 7115, 7345 9795, 11990

*** Sun only.

TO LATIN AMERICA

Czech/Slovak	kc
22.30–23.00	5930, 7345 9795, 11990

Portuguese	
21.30–22.30	5930, 7345 9795, 11990
00.00–01.00	5930, 7115, 7345 9795, 11990

Spanish	
23.00–24.00 } 02.00–03.00 }	5930, 7115, 7345 9795, 11990

MW SCE. for Europe: On 1286kc: English: 22.00–22.30; **French:** 20.30–21.00, 21.30–22.00; **German:** 17.05–18.00, 18.00–18.30, 19.00–19.30, 20.00–20.30; **Italian:** 18.30–19.00: **Spanish:** 23.00–23.30. **On 1097kc: English:** 23.05–23.30.
Prgr's for radioamateurs and SWL's:
English (to No. Am. and Pacific): On the second Fri in the month at 01.00 and 03.30. The repeat for Far East/Australia is heard on

Every month first-hand information on the world of broadcasting is offered to you in the

EBU REVIEW

Published in English and French by the European Broadcasting Union

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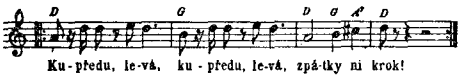
A combined subscription to Parts A and B (12 numbers) may be ordered either from Brussels or Geneva (price 420 Belgian francs or 36 Swiss francs).

the second Fri at 07.00. **English** (to Europe): Every first and third Mon at 19.00 and repeated at 22.00 – **German**: Every first Thurs 19.00. For Austria: Every third Sun at 09.30 repeated following Tues 17.05.
ANN: E: "This is Prague". **Arabic**: "Huna Pragh". **F**: "Ici Prague", Tchécoslovaquie". **I**: "Qui Praga, Cecoslovacchia". **G**: "Hier spricht Prag". **Sp**: "Aqui R. Praga, Checoslovaquia". **P**: "Aqui fala a R. Praga". **Czech/Slovak**: "Posloucháte Prahu, vysilani Cs. rozhlasu pro krajany" – **INT-SIG**: The opening bars of the song "Forward Left" by J. Seidl, played on trumpets.



V. by QSL-card and letter. Recordings accepted – **PUB**: Foreign Sce. sched. free on request.

DENMARK

L.T: GMT+1 h – **Pr.L**: Danish.
RADIO DENMARK (Gov.)
FI: By license payments – **ADDR**: Radiohouse, Rosenørnsalle 22, Copenhagen V. **Te**: 350647. **Cable**: Danradio – **L.P**: Dir. Gen: Erik Carlsen. Dir. Prgr (radio): Aksel Dahlerup. Dir. Adm: Ejnar Jensen. Dir. Secretariate: Finn Olesen. Dir. Music: Vagn Kappel. Dir. Drama (radio): Jørgen Claudi. Dir. Entertainment (radio): Niels-Jørgen Kaiser. Dir. Press & Foreign Rel: P. Berg. Dir. Tec (radio+TV): Fr. Heegaard. Dir. Tec (radio): H. C. Jørgensen. Dir. N: N. Grunnet. Dir. Actualities and Culturdept (radio): Jørgen Vedel-Petersen. Dir. Children, Youth and School Broadc (radio and TV): Valdemar Christensen.

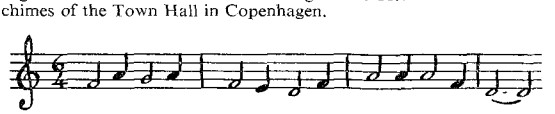
STATIONS: Long & Medium Waves:

	kc	m	kW	Prgr		kc	m	kW	Prgr
Kalundborg	245	1224	150	I	København	1484	202	2	I
Kalundborg	1061	283	60	II	Ålborg	1484	202	0.25	II
København	1430	210	10	II	Tønder	1484	202	0.25	II
Skive	1430	210	70	II	Esbjerg	1594	188	2	II

FM:	Mc	kW	Prgr.		Mc	kW	Prgr.
Århus	88.1	30	III	Bornholm	90.0	30	III
Fyn	89.0	60	I	Vestjylland	90.2	60	I
Ålborg	89.7	30	III	København	90.8	60	I

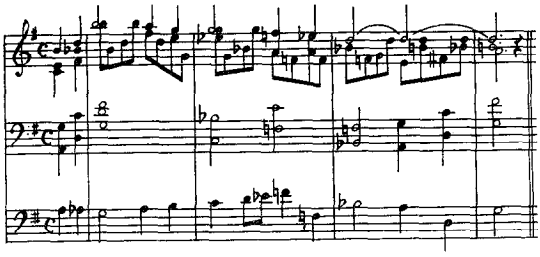
FM:	Mc	kW	Prgr.		Mc	kW	Prgr.
Århus	91.7	30	I	København	96.5	60	II
Fyn	92.6	60	III	Fyn	96.8	60	II
Vestjylland	92.9	60	III	Sønderjylland	97.2	50	III
Ålborg	93.3	30	I	Sydsjælland	97.5	60	II
København	93.85	60	III	Ålborg	98.1	30	II
Bornholm	94.5	30	I	Vestjylland	98.5	60	II
Sydsjælland	94.8	60	I	Bornholm	99.3	30	II
Sønderjylland	95.1	50	I	Sydsjælland	99.6	60	III
Århus	95.9	30	II	Sønderjylland	99.9	50	II

HOME SCE:
1st Prgr: W 05.00–23.05, Sun 07.00–23.05.
N: 05.00(W), 06.00(W), 07.00, 08.00(W), 11.30, 14.00(W), 17.30, 21.00, 22.00(exc. Sat), 23.00 – **Wrp**: 07.45, 10.50(W), 17.05 – **L.L**: **English**: Tues, Fri 08.45–09.05. **German**: 2nd & 4th Sun 07.05–07.25 – **Request Prgr**: Sun 11.00–13.00. Tues 18.00–19.00 – **Rlg**: Sun 09.00, 13.00, W 07.30.
2nd Prgr: W: 16.00–22.05(Sat 23.05). Sun: 07.00–11.00, 16.00–22.05. Mon 18.00–18.45 not on 1061kc (Kalundborg) and 1430kc (Copenhagen). **N**: 17.30, 21.00(exc. Sat), 23.00.
L.L: **English**: Mon, Thurs 16.40–17.00, Tues 16.00–16.20. **German**: Mon, Thurs 16.20–16.40, Sun 07.40–08.00. **French**: Sun 07.20–07.40. **Italian**: Mon, Thurs 16.00–16.20. **Russian**: Tues 16.20–16.40. **Swedish**: Sun 07.40–08.00 (twice monthly).
3rd Prgr (Musical Prgr): W 05.00–07.05, 11.00–23.05, Sun 11.00–23.05 (this prgr. is also relayed by the tr's of the 2nd prgr: Mon–Fri 05.00–07.05, 11.00–16.00, 22.00–23.05, Sat 05.00–07.05, 11.00–16.00, Sun 11.00–16.00, 22.00–23.05. **N**: hourly.
Reg.Prgr's: Mon 18.00–18.45 on Nordjylland (North Jutland): 1484kc 98.1Mc (Ålborg)–Midtjylland (Mid Jutland): 1430kc (Skive), 95.9Mc (Århus), 98.5Mc (Vestjylland) – West Jutland) – Sydjylland (South Jutland): 1484kc (Tønder), 1594kc (Esbjerg), 99.9Mc (Sønderjylland – South Jutland) – Fyn (Funen): 96.8Mc – Sjælland (Seeland): 97.5Mc – København (Copenhagen): 96.5Mc – Bornholm: 99.3Mc.
ANN: "Danmarks Radio, Program I" (Program II) – **INT-SIG**: Prgr. I: From an old Danish folksong. **D.** at 11.00 and 19.00: The chimes of the Town Hall in Copenhagen.



Prgr. II:

INT-SIG: 3rd Prgr:

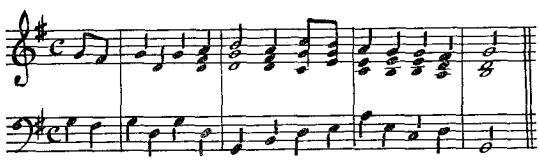


FOREIGN SCE: One 50kW (tr). DS=Danish Ships.
STATIONS: OZF5 9520kc 31.51m – OZF7 15165kc 19.78m.

Times	kc	Area	News
01.00–01.30	9520	DS (No.Am)	01.00(D)
01.30–02.30	9520	No.Am.	01.30(D), 02.00(E)
06.30–07.00	15165	DS(Au/NZ)	06.30(D)
09.00–10.00[1]	15165	FE, Au, NZ	09.00(D), 09.30(E)
12.00–13.00	15165	N.Am.	12.00(D), 12.30(E)
13.15–13.45	15165	Greenland	13.15(D)
14.00–14.30	15165	DS (So.Asia)	14.00(D)
14.30–15.30[1]	15165	So.Asia.	14.30(D), 15.00(E)
16.00–16.30	9520	DS (Medit)	16.00(D)
17.30–18.10[2]	9520	Greenland	17.30(D)
18.30–19.30	15165	So.Africa	18.30(D), 19.00(E)
19.45–20.45	9520	No.Af, ME	19.45(D), 20.15(E)
21.15–21.45	9520	DS (So.Am)	21.15(D)
21.45–22.45[3]	9520	So.Am.	21.45(D), 22.25(Sp)

[1] Tues, Thurs, Sat; [2] Home Sce; [3] Mon, Wed, Fri.
All broadcasts are of one h duration, and generally consist of 30 min's in Danish and 30 min's in E. (So.Am: 40 min's in Danish and 20 min's in Sp) – All broadcasts commence with N. in Danish; and in E. and Sp. respectively, at the beginning of the E. and Sp. portions of the prgr.
Outline of week's prgr. in Danish and E as broadcast to No.Am. and Af: **Mon**: N. Literature, N. Classical, Da. Music, D. Views on the N) – **Tues**: N. Reportage, N. On-the-Spot. **DX-Bulletin** (DX-Bull. comes on 8 to 10 min's before sign off, Thurs for FE, NZ & So.As) – **Wed**: N. Light prgr, N. Folk Music, Actualities – **Thurs**: N. Denmark round, N. Concert or Features – **Fri**: N. Oldfashioned, Econ. or Agri. Review, N. Light Music. Anything – Anybody – **Sat**: Shortwaving to the world (mbg. & request prgr) – **Sun**: Weekly N-Roundup, Church Services, Reportages, etc. (generally all Danish).
Thrice-weekly prgr. to So.America and FE-Au-NZ-So.As. follow the above general outline.

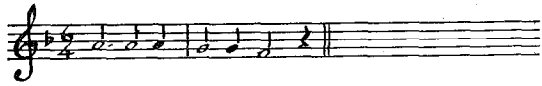
ANN: "Danmarks Kortbølgesender" – "You are tuned to the Voice of Denmark" – All tr. begin with the chimes of the Town Hall followed by the National Anthem (exc. DS which commence with 8 bells) – **INT-SIG**: The first bars of "Som en rejselysten Flåde" composed by Carl Nielsen:



Message to Listeners: Radio Denmark is anxious to receive reports on prgr. and on reception conditions from all parts of the world. It makes every endeavour to get into touch with countrymen and listeners in countries abroad with a view to provide the best possible s.w. sce – V. by letter or QSL-card. Recordings accepted. **PUB**: "Voice of Denmark" (quarterly) mailed upon request.
AKG, Austria delivered studio equip. (recorders, microphones).
Telefunken, Germany: studio equip.
The Marconi Company Ltd, G.B: delivered m.w. tr's: Århus 5kW, Fyn 5kW, Skive 100kW, Kalundborg 3×100, 8×5kW – Ant: Ålborg, Bornholm, Næstved, Vestjylland – studio equip: Ålborg, Århus, Bornholm, Fyn – Wilhelm Franz KG, Germany: EMT studio equip.

FAROE ISLANDS (Danish Territory)

L.T: GMT – Pr.L: Faroese.
UTVARP FØROYA
ADDR: Torshavn. Te: 2437. Telex: 26 – L.P: Mgr: N.J. Arge.
STATION (System: Marconi): 584kc 513m 5kW.
HOME SCE: Mon–Fri: 07.15–08.00, 12.00–13.00 (Wed 14.00); Sat 07.15–08.00, 12.00–16.00, 18.30–21.00; Sun 14.00–18.00 – Prgr's consist of Wrp, N from the Faroes, foreign N, lectures, music, features, wrp, morning-prayer, music. N.
ANN: "Utvarp Föroya" – INT-SIG: Xylofon – V. by letter. Recordings accepted.



FINLAND

L.T: GMT+2 h – Pr.L: Finnish, Swedish.
OY YLEISRADIO AB (Gov.)
FI: By license fees – ADDR: Unioninkatu 16, Helsinki (addr. for TV see TV section). Te: 630691. Cable: Yleisradio. Telex: 12-735.
L.P: Dir. Gen: E. S. Repo. Dep. Dir. Gen, Dir. Staff Adm: L. H. Vennola. Asst. Dir. Staff Adm: R. Koski. Dir. of Finnish Prgr: J. Koskiluoma. Dir. Swedish Prgr: Ch. Schildt. Dir. Eng: P. Arni. Asst. Dir. Eng: P. Velander. Dir. Finance: E. Vallila. Asst. Dir. Finance: M. Tamminen. Head Foreign Rel: Mrs. S. Palmgren.
STATIONS: Long & Medium Waves:

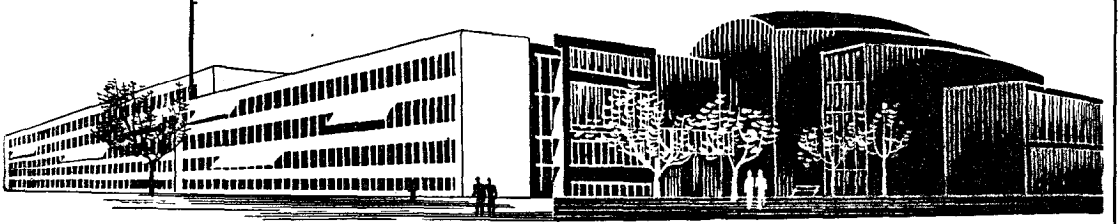
	kc	m	kW	Prgr group		kc	m	kW	Prgr group
Lahti	254	1181	200	A	Vaasa	1241	242	25	D
Oulu	433	693	10	A	Helsinki II	1412	212	2	B
Joensuu	520	577	1	A	Turku II	1412	212	0.4	B
Helsinki I	557	539	100	D	Tampere	1421	211	1	A
Kuopio	755	397	20	A	Pietarsaari	1484	202	1	C
Ylivieska	836	359	10	A	Pori	1484	202	1	A
Turku I	962	312	100	D					

FM	Mc	kW	Prgr group	FM	Mc	kW	Prgr group
Eurajoki I	92.0	15	A	Mariehamn	91.3	5	C
Eurajoki II	87.7	15	B	Mikkeli I	88.9	25	A
Eurajoki III	99.4	3	C	Mikkeli II	94.6	25	B
Forssa I	92.8	0.1	A	Oulu I	90.4	50	A
Forssa II	89.2	0.1	B	Oulu II	97.3	50	B
Helsinki I	94.0	40	A	Pello I	99.1	15	A
Helsinki II	98.8	40	B	Pello II	89.5	3	B
Helsinki III	91.9	40	C	Pietarsaari	94.3	10	C
Iisalmi I	87.7	0.7	A	Pihtipudas I	97.0	10	A
Iisalmi II	92.8	0.7	B	Pihtipudas II	88.6	10	B
Joutseno I	90.7	25	A	Pyhätunturi I	97.6	15	A
Joutseno II	88.0	25	B	Pyhätunturi II	91.0	3	B
Jyväskylä	92.5	25	A	Rovaniemi I	96.7	10	A
Jyväskylä II	89.9	25	B	Rovaniemi II	94.0	10	B
Kajaani I	94.3	40	A	Sammal-tunturi I	95.2	15	A
Kajaani II	98.9	40	B	Sammal-tunturi II	98.2	3	B
Karigasniemi I	93.4	0.7	A	Taivalkoski I	89.2	45	A
Karigasniemi II	89.5	0.7	B	Taivalkoski II	91.9	45	B
Kaunispää I	98.8	15	A	Tammisaari I	97.0	3	A
Kaunispää II	94.3	3	B	Tammisaari II	99.7	3	B
Kerimäki I	95.8	15	A	Tammisaari III	93.1	3	C
Kerimäki II	99.1	15	B	Tampere I	93.7	45	A
Kilpisjärvi	89.4	0.01W	A	Tampere II	90.7	45	B
Kokkola I	99.7	0.7	A	Tervola I	92.2	10	A
Kokkola II	97.6	0.7	B	Tervola II	88.6	10	B
Koli I	90.1	15	A	Turku I	94.3	25	A
Koli II	93.4	15	B	Turku II	89.8	15	B
Kotka I	92.8	0.3	A	Turku III	98.2	25	C
Kotka II	96.4	0.3	B	Utsjoki I	90.7	1	A
Kristiina I	94.6	10	A	Utsjoki II	99.4	1	B
Kristiina II	91.0	10	C	Vaasa	95.2	6	C
Kuopio I	91.6	25	A	Ylivieska I	94.0	15	A
Kuopio II	96.2	25	B	Ylivieska II	96.1	15	B
Lahti I	95.5	40	A	Ahtäri I	94.9	1	A
Lahti II	97.9	40	B	Ahtäri II	88.0	1	B
Lapua I	90.1	60	A				
Lapua II	93.1	60	B				
Loviisa	89.2	0.05	C				

HOME SCE: All st's: W 04.00–22.00. Sun 05.30–22.00. N: W 04.00, 05.00, 06.00, 08.00, 09.30, 10.30, 12.00, 13.00, 14.00, 14.50, 17.00, 19.00, 20.00, 21.00, 22.00. Sun 06.30, 10.30, 17.00, 19.00, 20.00, 21.00 – Wrp: 05.00, 06.00(Sun 06.30), 10.30, 17.00, 20.00. Wrp. for seas (in Finnish & Swedish): Groups C+D 11.00 (also on 254, 433kc), 17.10, 20.10.

Listen to
THE VOICE OF DENMARK

The Danish shortwave transmissions are beamed to North America, South America, Africa, India and the Far East



To North America daily on 19.78 m – 15.165 kc/s: 12.00 – 13.00 GMT, 07.00 – 08.00 a. m. E. S T. and on 31.51 m – 9.520 kc/s: 01.30 – 02.30 GMT, 8.30 – 9.30 p. m. E. S.T.
DX-Bulletin: Tuesdays about 7.50 a. m. and 9.20 p. m. E. S.T.

To South America on 31.51 m – 9.520 kc/s.
Mondays, Wednesdays and Fridays 21.45 – 22.45 GMT.

To Far East, Australia and New Zealand on 19.78 m – 15.165 kc/s.
Tuesdays, Thursdays and Saturdays 9.00 – 10.00 a. m. GMT.
DX-bulletin: Thursdays 9.50 – 10.00 a. m. GMT.

To South Asia on 19.78 m – 15.165 kc/s.
Tuesdays, Thursdays and Saturdays 14.30 – 15.30 GMT.
DX-bulletin: Thursdays 15.20 – 15.30 GMT.

To North Africa and Near East on 31.51 m – 9.520 kc/s.
Daily 19.45 – 20.45 GMT.
DX-bulletin: Tuesdays about 20.35 GMT.

To South Africa on 19.78 m – 15.165 kc/s.
Daily 18.30 – 19.30 GMT.
DX-bulletin: Tuesdays about 19.20 GMT.

Special broadcasts to Danish ships daily 06.30–07.00 GMT Far East 19.78 m–15.165 kc/s, 14.00 – 14.30 GMT South Asia 19.78 m – 15.165 kc/s, 16.00 – 16.30 GMT Mediterranean and Middle East 31.51 m–9.520 kc/s, 21.15–21.45 GMT South America 31.51 m–9.520 kc and 01.00–01.30 GMT North America 31.51 m–9.520 kc/s.

Listeners all over the world are invited to send reception reports together with their criticisms and programme suggestions to

the SHORTWAVE DEPARTMENT, RADIO HOUSE, COPENHAGEN V., DENMARK

Answer by letter or QSL-card

Swedish N: Groups C+D: W 04.10, 05.10, 06.10, 08.00, 09.35, 10.40, 12.00, 13.00, 14.55, 17.20, 20.10, 22.00. Sun 06.40, 10.40, 17.20, 20.10 – **Wrp:** 05.10, 06.10(Sun 06.40), 10.40, 17.20, 20.10.
Main Prgr: Group A: Both light and serious prgr. Regular prgr's: Morning Sce's W 05.45, Evening Sce's W 17.30, Divine Sce Sun 08.00.
Second Prgr: Group B: Light musical prgr. to 16.00 and after 21.00. Serious prgr: 16.00–21.00.
Bilingual Prgr: Swedish Prgr: Groups C or C+D 16.00–18.30(Sun & Thurs), to 21.00(Mon), to 18.00(Tues & Fri), to 20.00(Wed & Sat) plus 11.00–12.20(Sun), 12.10–14.00(Sat). In addition odd hrs in the morning and early afternoon. Other times Finnish Main or Second prgr.
Exclusively Swedish: Mariehamn FM 91.3Mc.

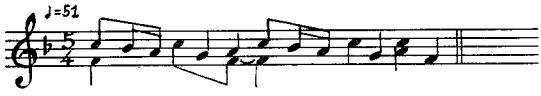
FOREIGN SERVICE
Stations: Pori
OIX7 6120kc 49.02m 15kW — OIX8 11805kc 25.41m 10kW
OIX2 9555kc 31.40m 15kW — OIX4 15185kc 19.76m 100kW

ENGLISH
For Europe on 9555/11805/15185kc: Mon 16.00–16.30 "Finlandia Mixture"; Fri 16.00–17.00 "DX-Mailbag Show"; repeat Fri 21.00 on 6120kc.
Repeat for Europe on 9555/11805kc **for No. America** on 15185kc: Tues 12.15–12.45, Sat 12.15–13.15.

FINNISH & SWEDISH
For Europe: On 6120kc: W 04.00–22.00(Fri 21.00), Sun 05.30–22.00 rel. Home Sce, bilingual prgr.
On 9555/11805kc: W 06.00–06.20, Sun 06.30–06.50 N in Finnish & Swedish.
On 9555/11805/15185kc: 10.00–11.10, 16.00–18.30(Mon 16.30–18.30, Fri 17.00–18.30). **Swedish:** Tues, Fri, Sat 17.30–18.30, Wed 17.40–18.30. **N, Wrp:** Finnish 10.30, 17.00, Swedish 10.40. **Wrp. for seas** (in Finnish & Swedish): 11.00.

Prgr. for seamen (Finnish & Swedish): Sun & holidays 17.30–18.30.
Repeat for Europe on 9555/11805kc, **for North America** on 15185kc (same prgr. as to Europe 16.00–18.30):
Repeat from the day before: 12.15–15.10 (Tues 12.45–15.10, Sat 13.15–1510).

ANN: Before and after each tr. there are st. ann. in Finnish, Swedish, English, French, Spanish and German. Finnish: "Suomen Yleisradio". Swedish: "Finlands Rundradio". English: "You are tuned to the Finnish Broadcasting Company".
INT-SIG: Based on an old Finnish Folk melody – V. by QSL-card.



PUB: Prgr-schedules to Listeners: duplicated schedules of the short wave tr's containing the same information as given in the World Radio Television Handbook, can be obtained by writing to "DX-Editor" of the Finnish Broadc. Co.
Station and studio equipment (radio):
The Marconi Company Ltd, G.B: mw-tr, Helsinki 100kW – Brown Boveri Switzerland: 1w-tr. Lahti 2×100kW, mw-tr. Turku 100kW, mw-tr. Oulu 25kW, mw-tr. Vaasa 25kW – RCA, USA, Philips, Holland: FM-tr's – Telefunken AG, Germany: studio equip, (recorders, microphones) Wilhelm Franz KG, Germany: EMT studio equip.

FRANCE

L.T: GMT+1 h – **Pr.L:** French.

OFFICE DE RADIODIFFUSION-TELEVISION FRANCAISE (Gov.)
Central Service:
ADDR: Maison de l'O.R.T.F, 116, Avenue du Président Kennedy, Paris 16. **Cable:** ORTFDIR. **Te:** 224-22-22.
Regional Service: 32–34, rue Ulysse Gayon, Bordeaux – 36, Bd. de la Liberté, Lille – 6, Bd. Victor Hugo, Limoges – 20, Quai Gailleton, Lyon – 2 allée Ray Grassi (Parc Chanot), Marseille – 6, Avenue Hippolyte Maringer, Nancy – 9, Avenue Janvier, Rennes – Place de Bordeaux, Strasbourg – 78, allées Jean Jaurès Toulouse.
L.P: Prés du Conseil d'Adm: W. Lefevre d'Ormesson. Dir. Gen: J. B. Dupont. Dir. Gen. Adjoint: A. L.Astoux. Dir. Gen: Adjoint. Dir. TV: C. Contamine. Pres. des Comités des Programmes (radio): P. Descaves, (TV): G. Neveux. Chef du Service des Affaires Générales: R. Samama. Chef du Service de la Recherche: P. Schaeffer. Secr. Gén. des Comités de Programmes: G. E. Clancier. Chef des Services des Relations Publiques et des Affaires Commerciales: S. de Gozdawa-Godlewski. Délégué aux Stations Régionales: B. Gouley. Inspecteurs Généraux: P. Bodin, M. Freneau, A. M. Gerard, J. Landrac. Dir. de l'Equipement et de l'Exploitation: C. Mercier. Dir. Adjoint, chargé de l'Equipement: G. Chedeville. Dir. de l'Administration Générale: G. Riou. Dir. Adjoint, charge du Personnel: J. P. Pourcel. Dir. de la Radiodiff: P. de Boisdeffre. Dir. Adjoint: R. Dhordain. Dir. Général Adjoint, Dir. de la Télévision: C. Contamine. Dir. Adjoint: J. Thibau. Dir. des Relations Extérieures: J. Flaud. Adjoint au Dir: M. Robida.

HOME SERVICE

FRANCE-INTER

	kc	m	kW		kc	m	kW
Allouis	164	1829	500/250*	Marseille III	1493	201	1
				Strasbourg III	1493	201	1
Grenoble II	1484	202	0.05	Nice I	1554	193	60
Montpellier II	1484	202	1	Nîmes	1594	188	1
Perpignan	1484	202	1	Toulon	1594	188	0.05
Brest III	1493	201	0.05	* 500kW d 05.00–23.00.			

D.PRGR: On 164kc: 24 h (exc. Fri 03.03–04.00). Other tr's 05.00–23.00 – **N:** Every h on the h and 06.30 – **"Inter Service Route":** (For motorists): 00.20, 03.45, 04.50, 07.20, 10.57, 18.45.

FRANCE-INTER "VARIETES"

	kc	m	kW		kc	m	kW
Paris III	584	514	1	Rouen	1403	214	20
Lyon I	602	498	100	Pau	1403	214	20
Marseille I	674	445	150	Bayonne I	1493	201	4
Rennes I	710	423	150	Nantes II	1493	201	0.05
Limoges I	791	379	100	Amiens	1484	202	0.05
Nancy I	836	359	150	Caen	1484	202	0.05
Toulouse I	944	318	100	Colmar	1484	202	0.05
Paris II	1070	280	100	Dijon	1484	202	1
Strasbourg I	1160	259	150	Poitiers	1484	202	1
Bordeaux I	1205	249	100	Ajaccio	1493	201	1
Lille I	1376	218	150	Reims	1493	201	0.05
Bastia	1403	214	4	Tours	1493	201	0.05
Brest II	1403	214	20	Lorient	1594	188	0.05
Clermont-Ferrand	1403	214	20	Metz	1594	188	0.05
				Mulhouse	1594	188	0.05
Montpellier I	1403	214	10	Angers	1594	188	0.05
Nice II	1403	214	4	St. Quentin	1594	188	0.05

FM: * 0.05kW; ** 2kW; others 12kW.

Station	Mc		Mc		Mc
St. Quentin*	87.93	Perpignan**	92.1	Reims	96.8
Toulouse**	87.9	Angers*	93.2	Valenciennes*	97.2
Mulhouse*	87.95	Dijon**	93.7	Reims	97.43
Grenoble*	88.2	Paris	93.35	Brest	97.8
Carcassonne	88.3	Mézières**	93.5	Troyes	97.9
Bourges	88.5	Rennes	93.55	Bordeaux**	98.1
Le Mans	89.0	Gex*	94.4	Clermont Fd**	98.6
Bastia**	89.2	Lille	94.7	Tours[1]	98.7
Limoges	89.5	Toulon**	94.9	Nantes	98.9
Besançon**	90.0	Boulogne*	95.5	Niort	99.4
Colmar*	91.03	Amiens*	95.95	Caen	99.6
Vannes**	91.8	Mulhouse	95.7	Lyon	99.8
Aurillac**	91.9	St. Raphael**	96.3	Metz	99.8
Marseille	91.27	Rouen	96.5		

D.PRGR: "France Inter Varietes": W 19.30–22.00. Sun 14.00–17.00, 19.30–23.00. Other times (from 05.00) relay France-Inter. **N:** see France Inter.

FRANCE CULTURE

	kc	m	kW		kc	m	kW
Bayonne II	539	557	0.05	Strasbourg	1277	235	100
Paris I	863	348	300	Bordeaux II	1349	222	20
Brest I	1241	242	20	Grenoble I	1349	222	20
Lille II	1241	242	20	Limoges II	1349	222	20
Lyon II	1241	242	20	Nantes I	1349	222	10
Marseille II	1241	242	20	Toulouse II	1349	222	20
Nancy II	1241	242	20	Saint-Brieuc	1493	201	0.05
Nice III	1241	242	20	Besançon	1493	201	1
Rennes II	1241	242	24				

FM: * 0.05kW; ** 2kW; others 12kW.

Station	Mc		Mc		Mc
Aurillac**	98	Gex**	89.6	Paris	97.6
Bastia**	93.9	Grenoble**	99.4	Perpignan**	99.8
Bayonne*	91	Le Mans	97.0	Reims	98.85
Besançon**	97.7	Lille	98.0	Rennes	98.3
Bordeaux**	89.7	Limoges	93.0	Rouen	94.0
Bourges	94.9	Lyon	88.8	Strasbourg**	87.72
Brest	89.4	Marseille	99.0	Troyes	95.3
Caen	91.53	Metz	94.5	Toulon**	89.6
St. Raphael**	88.7	Mézières**	95.8	Toulouse**	95.7
Carcassonne	96.5	Mulhouse	88.6	Vannes**	88.6
Clermont Fd**	90.4	Nantes	94.2		
Dijon**	99.2	Niort	96.4		

D.PRGR: 06.00–23.00. **N:** 06.30, 11.30, 18.30 – **Reg. Prgr** (Grenoble 1349kc): 06.30–06.45, 11.30–12.00 (Sat 13.00–14.00).

Finnish Broadcasting Company 40 years old

Finland, one of the world's most northerly countries, is rather sparsely inhabited. It covers 337,009 sq. km., but the population is only 4,610,740. A cold climate and long, dark wintry nights force people to stay indoors more than in countries farther south. Such conditions have favoured the development of radio and television. These two media alone have reduced the feeling of isolation and made distance meaningless. So there is a radio in every Finnish home. The percentage of portable and car radios is growing rapidly; the same goes for television sets, which now number about 750,000.

When the Finnish Broadcasting Company this year celebrates 40 years of regular service, sound radio offers listeners two programmes which can be heard all over the country and yet a third for the Swedish speaking population living on the south and west coasts. There is also a television programme which the whole country, apart from northernmost Lapland, is able to watch. The south of Finland is also able to watch a second television channel.

Listen to Finland on Mondays and Fridays at 16.00 GMT, or, if you live in the United States, on Tuesdays and Saturdays. For further details see page 102.

RADIO

THE FINNISH BROADCASTING COMPANY

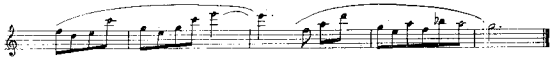
FRANCE-MUSIQUE:
FM: * 0.05kW; ** 0.25kW; *** 2kW; others 12kW.

Station	Mc		Mc		Mc
Lille	88.7	Grenoble***	91.8	Clermont Fd***	95.5
Reims	89.2	Bourges	91.8	Caen	95.6
Boulogne*	89.4	Rouen	92.0	Dijon***	95.9
Metz	89.7	Lyon	92.4	Vannes***	96.0
Rennes	89.9	Le Mans	92.6	Nantes	90.6
Mézières***	90.1	Besançon***	92.9	Gex***	96.7
Carcassonne	90.9	Brest	93.0	Nancy***	96.9
Paris	90.35	Bordeaux***	93.5	Toulon***	97.1
Troyes	91.4	Marseille	94.2	Perpignan***	97.2
Niort	91.1	Aurillac***	94.5	Limoges	97.5
Toulouse***	91.5	Strasbourg***	95.0	St. Raphael***	99.6
Mulhouse	91.6	Bastia***	95.9		

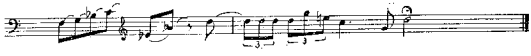
D.PRGR: 06.00–23.00 – N: 06.30, 11.30, 18.30.

SPECIAL BROADCASTS: Paris IV 962kc 312m 10kW (Cultural. R. Sorbonne, University broadcasts) – FM Paris 87.8Mc 12kW (University broadcasts).
ANN: "France Inter" – "Inter Variétés" – "France Culture" – "France Musique".

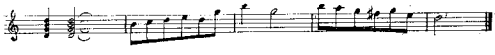
INT-SIG: France Inter:



France Culture:



France Mucique:



FOREIGN SERVICE

STATIONS: Allouis & Issoudun 100kW.

kc	m	kc	m	kc	m	kc	m
5955	50.38	9525	31.50	11725	25.59	17740	16.91
6145	48.82	9560	31.38	11845	25.33	17765	16.89
6175	48.58	9570	31.35	11850	25.32	17850	16.81
7160	41.90	9585	25.24	11885	25.24	21580	13.90
7215	41.58	9615	31.20	15130	19.83	21620	13.87
7240	41.44	9620	31.19	15160	19.79		
7280	41.21	9755	30.76	15245	19.68		

EUROPEAN SERVICE

Bulgarian kc
09.00–09.45 9585, 11845

Czech/Slovak
19.00–20.00 5955, 7240

French
09.00–10.00(Sun)[1] 7160
18.00–13.00* 6175
11.00–20.00* 6175
23.00–23.30[2] 602, 710

German
18.00–19.00(W) 1277
18.40–19.00(Sun) 1277

Greek
12.15–12.45 15160, 15245

Hungarian
18.15–19.00 5955, 9570

Polish
10.00–11.00(Sun)[1] 9560
17.30–18.00(W) 1376
19.00–20.00 6145, 7215, 9570

Portuguese
18.00–18.30 7215, 9615

Rumanian
17.15–18.00 9755, 11845

Russian
16.00–17.00 7160, 9620, 11885

Serbo-Croatian
18.05–18.45 6145, 7160

Spanish
22.00–23.00 944

Yiddish
21.15–21.35(W) 7215, 9620

French Lessons[3]
20.00–20.45 6175

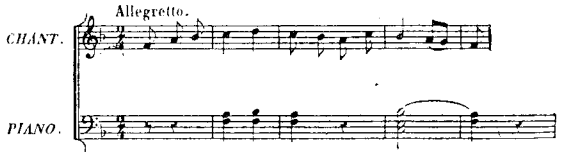
[1] Mass. * relay France Inter; [2] to No. Africa; [3] In Spanish (15 min's), Portuguese (15 min's), English (15 min's).

OVERSEAS SERVICE

I = French Polynesia, New Caledonia, New Hebrides; II = Africa; III = Antarctica; IV = Antilles, Guiana, St. Pierre et Miquelon; V = Far East; VI = Indian Ocean; VII = Middle East; VIII = Canada; IX = Latin America – All prgr's in French exc. where indicated.

Times	Areas	kc
05.30–06.15(Mon)	III	7160, 9755
06.00–06.45	I	6175, 9560
07.00–07.30	II	11845, 15245, 17765, 21620
10.30–11.00	IV	15245, 17765
11.00–13.00*	II	9585, 11845, 15130
12.00–12.30*	IV	17765, 21580
13.00–14.00a	V	11850, 15245, 21580
14.00–17.00(Sun)b	II	21580
15.15–16.00	VI	17765, 21620
15.30–15.45	VII	11845, 15245, 17740
16.30–16.45c 16.30–16.50(Fri)	VIII	15130, 17850
18.58–19.33	II	11845, 11885, 15130
19.00–19.30*	IV	15245
23.00–00.30	IV	9525, 11885
23.15–02.15d	IX	9755, 11845

*=relay France Inter; a=French/English; b="Sport & Music"; c=Mon–Thurs; d=Spanish, Portuguese, French.
PRGR'S in Arabic:
11.30–12.10 to Mid East on 15245/17740kc.
16.00–21.00 to No. Africa on 7280/9585/11725kc.
ANN: "Ici Paris, Office de Radiodiffusion-Télévision Française" – **INT-SIG:** Popular song: "Nous n'irons plus au bois"



V. by QSL-card.

O.C.O.R.A. (Office de Coopération Radiophonique).
an organization the purpose of which improvement and development of Broadc. and Television in "les Etats Independants d'Afrique d'expression Francaise".
ADDR: 46, rue d'Amsterdam, Paris 9é. **Cable:** O.C.O.R.A. **Te:** PIGallé 99-39 – **L.P:** Pres of the Board of Adm: M. Bordaz. Dir. Gen: F. Cardin. Secr. Gen: M. J. Lansier.
STATIONS: R. Bujumbura (Burundi), R.diff. de Cameroun (Yaoundé, Doùala, Garoua), R. Bangui (Bangui), R. Congo (Brazzaville), R.diff. Nationale (Leopoldville), R. Abidjan (Abidjan), R.diff. du Dahomey (Cotonou), R. Gabon (Libréville), R. Haute Volta (Ouagadougou), R.diff. Nationale Malgache (Tananarive), R. Mali (Bamako), R. Mauritania (Nouakchott), R. Niger (Niamey), R. Rwanda (Kigali), R.diff. du Senegal (Dakar), R.diff. Nationale Tchadienne (Fort Lamy), R.diff. du Togo (Lomé).
AKG, Austria, delivered studio equip. (recorders, microphones).

AMERICAN FORCES NETWORK EUROPE

ADDR & L.P: See Germany – **STATIONS:** Bel Manoir 98.4, Braconne 90.0, Brienne-le-Chateau 94.2, Captieux 92.8, Chalons S/Marne 96.3, Chambley 95.2, Chateauroux 90.8, Chaumont 97.4, Chinon 93.4, Croix Chapeau 93.8, Dreux 99.05, Etain 99.0, Evreux 88.4, Fontainebleau 98.1, Ingrandes 95.3, Laon 98.4. *Orleans 90.3, Phalsbourg 91.7, *Potiers 97.2, St. Mihiel 91.7, St. Nazaire 99.8, Saumur 87.7, Toul Rosieres 93.35, Trois Fontaines 94.0, *Verdun 92.2, Vitry-le Francois 93.25Mc (*=Studios) – All st's: 0.075kW – **D.PRGR:** 05.00(Sun 06.00)–00.05 – See Germany.

CANADIAN FORCES NETWORK (Mil.)

ADDR: Chateau De Mercy, Metz – **STATIONS:** Metz 93.3Mc – **Affiliates:** Marville 95Mc, Grostenquin 96Mc, *Zweibrücken 98.5Mc, *Baden-Sollingen 88.9Mc. All st's 0.05kW – *=located in Germany.

GERMANY

GERMAN FEDERAL REPUBLIC

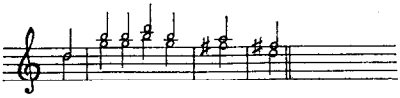
L.T: GMT+1 h – **Pr.L:** German.

Arbeitsgemeinschaft der öffentlich-rechtlichen Rundfunkanstalten der Bundesrepublik Deutschland (ARD) Broadcasting (Radio and Television):
Chmn: Intendant W. Hess, Hessischer Rundfunk 6, Frankfurt/Main, Bertramstrasse 8 – **Members:** Bayerischer Norddeutscher, Saarländischer, Hessischer, Süddeutscher und Westdeutscher Rundfunk, Radio Bremen, Sender Freies Berlin, Südwestfunk, Deutschlandfunk, Deutsche Welle, and as guest-partaker at meetings: RIAS, Berlin. Institut für Rundfunktechnik; 2 München-Freimann, Floriansmühlstr. 60.

DEUTSCHLANDFUNK (Gemeinnützige Anstalt des öffentlichen Rechts)
Purpose: Veranstaltung von Rundfunksendungen für Deutschland und das europäische Ausland, die ein umfassendes Bild Deutschlands vermitteln.
ADDR: Köln-Marienburg, Lindenalle 7. **Te:** 380161.
L.P: Intendant: Dr. H. F. G. Starke. Dir. Aktuelles Programm: J. Viehöver. Dir. Kulturelles Program: Dr. J. Petersen. Sendeleiter: E. Imelmann. Verwaltungsdirector & Justitiar: Freiherr von Sell. Chief Engineer: O. Scheffler. Presse: Dr. K. Wagenführ.

STATIONS	kc	m	kW		kc	m	kW
Mainflingen	151	1986.8	50	Ravensburg	755	397	20
Königslutter	548	547	200	Mainflingen	1538	195	300
Bad Dürrheim	548	547	20				

HOME SCE. in German: 03.58–03.45.
N: Every h on the h 04.00–17.00 & 22.00–03.00, also at 04.30, 05.30, 18.30, 20.30.
"Deutschland Echo": W 18.00 – **"Die Woche in Deutschland":** Sat 18.45 – **"Themen des Tages":** Mon–Fri 18.45 – **"Prisma der Welt":** Mon, Wed, Thus, Sat 20.40 – **"Wirtschaftsfunk":** Mon–Fri 17.05.
FOREIGN SCE. on 1538kc: W 19.00–22.30.
19.00 Polish, 19.30 Czech, 20.00 Serbian/Croatian, 20.30 Roumanian, 21.00 Hungarian, 21.30 French, 22.00 English.
ANN: "Hier ist der Deutschlandfunk" – **INT-SIG:** "Du Land voll Lieb' und Leben" from the folksong "Ich hab' mich ergeben" (played on Celeste).



Wilhelm Franz KG, Germany: EMT studio equip.
Telefunken AG, Germany, delivered studio equip. (recorders).

DEUTSCHE WELLE (Anstalt des öffentlichen Rechts)

ADDR: Bruederstr. 1, Postfach 344, 5 Köln. **Te:** 20301. **Telex:** 08/881942 – **L.P:** Intendant: Dr. Hans Otto Wesemann. Dir. Prgr: H. von Plato. Dir. Tec: G. Roessler. Dir. Adm: Dr. H. Fellhauer. Dir. Transcription: C. von Chmielewski. DX-Editor: G. G. Thiele.
STATIONS: Juelich-DMQ, 7 tr. 100kW; Kigali-Rwanda (relay) one tr. 250kW – ° relay st. Kigali/Rwanda. * used Nov-Feb only. ** used March/April only.

kc	m	kc	m	kc	m	kc	m
*5955	50.39	7205	41.64	9735	30.82	15205	19.73
*5960	50.34	7220	41.55	°9735	30.82	15275	19.64
5980	50.17	7275	41.24	*9765	30.72	15280	19.63
*6015	49.88	*7280	41.21	*°11770	25.49	**15295	19.62
°6045	49.63	*°7290	41.15	**11775	25.48	**°15380	19.50
6075	49.38	9530	31.48	11785	25.46	15405	19.47
6100	49.18	9545	31.43	11795	25.43	°17765	16.89
6120	49.02	9575	31.33	**°11850	25.32	°17805	16.85
6145	48.82	9605	31.23	*°11855	25.31	17830	16.83
6175	48.58	9640	31.12	11890	25.23	17845	16.81
6185	48.50	*9655	31.07	°11905	25.20	17870	16.79
*7125	42.11	**°9660	31.06	11925	25.16	**17875	16.79
*7150	41.96	9675	31.01	11930	25.15	21650	13.86
7175	41.81	*°9695	30.95	11965	25.07		

OVERSEAS SERVICE

Abbreviations: I=Ea.Asia/Australia/New Zealand; II=So.Asia; III=No.Africa/M.East; IV=Europe; V=Africa; VI=We.Africa; VII=So.America (East); VIII=No.America (East); IX=C.America; X=No.America (West); XI=East Europe; XII=So.Europe.
GERMAN PRGR: * Relay st. Kigali.

H. of tr.	Area	Nov–Feb. kc	March–April kc	N.
06.45–09.45	I	9735/11795/15205	9735/11795/15205	06.45, 09.35
12.50–15.50	II	9735/11965	15275/17875	12.50, 15.40
16.00–19.00	III	7125/9545	9545/11795	16.00, 18.50
17.15–20.15	IV/V	6075/9530/11785	6075/11785/15275	17.15, 20.05
20.00–23.00	VI	11770*	15380*	22.30, 01.20
22.30–01.30	VII	6145/9575/9735	6145/9575/9735	00.00, 02.50
00.00–03.00	VIII	6100/6175/9545	6100/6175/9545	01.45, 04.45
01.45–04.45	IX	6145/9605	6145/9605	03.00, 05.50
03.00–06.00	X	6075/6100/9640	6075/6100/9640	

Comm: After first N – **"Wie wir leben":** Wed – **"Unter uns gesagt":** Wed – **DX Prgr:** (in German & English): Every second Mon/Tues: 09.15, 15.20, 18.30, 19.45, 01.00, 02.30, 04.15, 05.30 – **Technische Hinweise** (in German): Every fourth Mon/Tues; Times as for DX-Prgr.

FOREIGN LANGUAGE PRGR: (Freq's in brackets used in March/April)

H. of tr.	Area	Nov–April (kc)	L.	N.
01.30–02.50	VIII	6075/9640	English	01.32
03.00–03.40	II	5980/7175 (7175/9530)	English	03.02

OCORA

OFFICE DE COOPÉRATION RADIOPHONIQUE

BURUNDI • CAMEROUN • CENTRAFRIQUE

CONGO-BRAZZAVILLE • CONGO LEOPOLDVILLE • COTE D'IVOIRE • DAHOMEY

GABON • HAUTE VOLTA • MADAGASCAR • MALI • MAURITANIE • NIGER

RWANDA • SENEGAL • TCHAD • TOGO

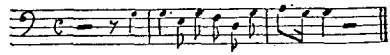
Adresse: 46, rue d'Amsterdam - PARIS (9°) - Cable: OCORA
Te: 744. 99.39 - L.P.: Pres. of the Board of Adm.: M.J.B. DUPONT -
Dir. Gén.: F. CARDIN - Secr. Gén.: M.G. RIDOUX.

Société d'Etat de la Republique Française chargée d'apporter son assistance technique aux Etats Africains et Malgache dans le domaine de la radiodiffusion sonore et visuelle.

ORGANITEC-PUBLICITE PARIS

H. of tr.	Area	Nov–April (kc)	L.	N.
03.15–03.45	V	6045*	Amharic	03.17
03.45–04.20	VII/IX	5960/9735	Spanish	03.47
04.00–04.30	V	6045*	Swahili	04.02
04.30–05.00	V	6045*	**English**	04.32
04.25–05.25	III	7205/9530	Arabic	04.27
05.00–05.40	X	6145/9735	**English**	05.02
05.15–05.45	V	6045*	French	05.17
05.45–06.15	V	6045*	Swahili	05.47
05.45–06.25	VII/IX	6145/9735	Spanish	05.47
06.05–06.20	V	9605/11785/15275 (11785/15275/17845)	Hausa	06.07
06.20–06.45	V	9605/11785/15275 (11785/15275/17845)	French	06.22
06.45–07.15	V	9605/11785/15275 (11785/15275/17845)	**English**	06.47
07.15–07.25	V	9605/11785/15275 (11785/15275/17845)	Hausa	07.17
06.10–06.40	XII	7280/9675 (9675/11795)	Turkish	06.12
06.30–07.15	VI	11905*	**English**	06.32
07.15–07.45	VI	11905*	Hausa	07.17
07.45–08.30	VI	11905*	French	07.47
07.30–08.05	II	11785/15275/17845	Hindi	07.32
08.05–08.40	II	11785/15275/17845	Urdu	08.07
08.45–09.40	I	11925/15275/17845 (9640/15275/17845)	**English**	08.47
09.50–10.40	III	17845/21650	Persian	09.52
09.45–10.15	V	9735*	Swahili	09.47
10.15–10.45	V	9735*	English	10.17
09.55–10.15	V		Swahili	09.57
10.15–10.30	V		**English**	10.17
10.30–11.00	V	11930/15280/17870	Amharic	10.32
11.00–11.15	V		Hausa	11.02
11.15–11.30	V		French	11.17
11.30–11.45	V		Swahili	11.32
11.00–11.30	V	9735*	French	11.02
11.30–12.00	V	9735*	Swahili	11.32
11.00–12.00	XI	9640/11965	Rumanian	11.02
11.05–12.05	XI	6145/7205	Czech/Slovak	11.07
11.50–12.45	I	9765/11925 (11925/15275)	Mandarin	11.52
12.10–13.20	I	9655/11795/15405 (11795/15405/17830)	Indonesian	12.12
12.15–13.00	VI	17765*	**English**	12.17
13.00–13.30	VI	17765*	Hausa	13.02
13.30–14.15	VI	17765*	French	13.32
12.20–13.20	XI	9640/11890	Bulgarian	12.22
13.30–14.30	XI	6145/7205	Polish	13.32
13.30–14.30	XI	6075/7275/9640	Hungarian	13.32
14.30–15.00	VI	11855* (11850)*	Amharic	14.32
14.35–15.05	III	9545/11925/15405 (11925/15405/17845)	Arabic	14.37
14.40–15.40	XI	6075/7275 (7275/9640)	**Serbo/Croat	14.42
15.10–15.50	X	9545/9640/11795 (9735/11795/11925)	**English**	15.12
15.15–15.45	V	9695* (11850)*	Swahili	15.17
15.45–16.15	V	9695* (11850)*	**English**	15.47
15.50–16.20	II	7175/9735 (11775/15295)	**English**	15.52
15.55–16.30	V	11890/17830 (15275/17845)	**English**	15.57
16.30–17.00	V	11890/17830 (15275/17845)	French	16.32
17.00–17.10	V	11890/17830 (15275/17845)	Swahili	17.02
16.30–17.00	V	7290* (9660)*	French	16.32
17.00–17.30	V	7290* (9660)*	Swahili	17.02
16.25–17.20	III	7150/9640 (11890/15405)	Persian	16.27
17.25–17.55	XII	5955/9640 (9640/11925)	Turkish	17.27
18.00–19.00	XI	6015/7220 (7220/9735)	Russian	18.02
17.45–18.30	VI	17805*	**English**	17.47
18.30–19.00	VI	17805*	Hausa	18.32
19.00–19.45	VI	17805*	French	19.02
19.10–20.40	III	7220/9735 (9735/11795)	Arabic	19.12
19.20–20.10	XII	6120	Spanish	19.22
20.15–21.05	XII	6120	Portuguese	20.17
20.15–21.05	XII	6075	Italian	20.17
20.45–21.35	XII	6185	Greek	20.47
21.10–22.00	I	5980/7175 (7175/11925)	**English**	21.12
21.40–22.40	VII	6100/9545/11795	Portuguese	21.42
22.40–23.50	VII/IX	6100/9545/11795	Spanish	22.42

* Relay St. Kigali – ** 15.20–15.40 Slovenian (Tues/Thurs/Sat).
ANN: G: "Hier ist die Deutsche Welle". E: "This is R. Deutsche Welle, the Voice of Germany". F: "Ici la Voix de l'Allemagne". Sp: "Habla la Voz de Alemania". P: "Esta é a Voz de Alemanha".
INT-SIG: Motif from "Fidelio" by Beethoven: "Es sucht der Bruder seine Brüder" played on Celeste.



V. by QSL-card (10 min. prgr. details required). Recordings accepted – **PUB:** Monthly Prgr.sched. free.
Telefunken AG, Germany, delivered: 100kW sw-tr's, studio equip. (recorders). Marconi Co, G.B: transmitter (Kigali). Brown Boveri, Switzerland: Antennas (Kigali). Wilhelm Franz KG, Germany: EMT studio equip.

BAYERISCHER RUNDFUNK (Anstalt des öffentlichen Rechts) **AD:** Mon–Fri 05.25–06.00, 08.20–09.00, 12.45–13.30. Sat 05.25–06.00, 06.45–07.00 – **ADDR:** 8 München 2, Rundfunkplatz 1. **Cable:** Bayernfunk München. Te: 59001 – **L.P:** Intendant: Chr. Wallenreiter. Prgr. Dir: W. von Cube. Dir. Adm: H. Spies. Dir. Tec: Dr. F. Daser.

HOME SERVICE

FIRST PRGR. on all frequencies: W 04.30(Sat, Sun 05.00)–24.00 (exc. 08.55–09.35 m.w. only). * night only. [1] Passau. [2] Augsburg, Landshut.

M.waves:	kc	m	kW		kc	m	kW
Bayreuth	520	577	0.2	Hof	1602	187	1
Kempten	520	577	0.2	Land./Isar	1602	187	20*
Würzburg	520	577	0.2	Kirchheim	1602	187	20*
low power[1]	520	577	0.2*	Coburg	1602	187	1
München	800	375	100	Regensburg	1602	187	1*
2 low power[2]	1484	202	1.0*				
Nürnberg	1602	187	20 day, 40 night.				

Short Wave: München–Ismaning DMR24 6085kc 49.30m 10kW: 04.30(Sat/Sun 05.00)–23.05.

FM:	ch	Mc	kW		ch	Mc	kW
Berchtesgaden	3	87.8	0.3	Wendelstein I	22	93.7	100
Lindau I	4	88.1	0.4	Garm. Partenk.	22	93.5	0.06
Herzogstand I	4	88.1	0.1	Bamberg I	26	94.8	6
Dillberg I	6	88.9	12	Aschaffenburg I	29	95.6	17
Grünten/Allgäu	12	90.7	100	Ochsenkopf/ Fichtelgeb. I	30	96.0	100
München I	14	91.3	3				
Hühn. b. Hb.	16	91.9	6	Hoher Bogen	33	96.8	30
Bad Reichenh.	19	92.8	0.3	Traunstein Hb.	37	98.0	2
				Kreuzb./Rhön I	38	98.3	10

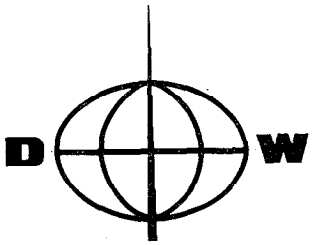
N. Wrp: W 05.00, 06.00, 07.00, 11.00, 12.00, 16.00, 18.00, 20.00, 22.00, 23.00. Sun 06.00, 07.00, 12.00, 16.00, 18.00, 20.00, 22.00, 23.00 – **"Cronik des Tages":** W 17.00 – **Request Prgr:** Wed 18.25. **Night Prgr:** D 00.00–04.20 on 520kc (Bayreuth, Kempten, Würzburg) 1602kc (Nürnberg, Kirchheim, Landau/Isar, Hof, Coburg) and on all FM st's exc. 96.0Mc – **N:** 00.00, 01.00, 02.00, 03.00, 04.00 – **T.S:** 11.00, 17.00, 23.00 – **N. in English, French, German:** 08.00.

SECOND PRGR: Mon–Fri:04.30–08.50, 09.30–24.00. Sat, Sun: 05.00–24.00 – **Relay First Prgr:** 04.30–05.05, 06.00–07.15, Mon–Fri: 11.05–12.00, Wed, Fri, Sat: 23.00–24.00, Sun: 05.00–06.05, 23.00–24.00.

	ch	Mc	kW		ch	Mc	kW
Gelbelsee	2	87.6	10	Landshut	11	90.2	0.1
Tegernseer Tal	2	87.7	0.3	Ochsenkopf/ Fichtelgeb. II	12	90.7	100
Augsburg	3	87.9	0.75				
Büttelb./Frankh.	4	88.2	7	Berchtesgaden	14	91.2	0.3
Coburg	4	88.3	2	Brotjacklriegel	17	92.1	100
München II	5	88.4	3	Lindau	17	92.1	0.4
Grünten/Allgäu	6	88.7	100	Dillberg II	18	92.3	12
Würzburg	7	89.0	2	Hohe Linie	20	93.0	8
Garm.-Partenk.	7	89.2	0.5	Kreuzb./Rhön II	20	93.1	100
Wendelstein II	8	89.5	100	Passau	21	93.2	0.3
Bamberg II	9	89.6	6	Hoher Bogen II	25	94.4	2
Aschaffenb. II	9	89.75	6	Herzogstand II	33	97.0	0.1
Hohenpeissenb.	10	89.9	8	Reichenhall	42	99.5	0.3

N: W 05.00, 06.00, 07.00, 11.00, 17.00, 19.00, 21.00, 23.00, Sun 06.00, 11.05, 19.00, 21.00, 23.00 – **Request Prgr:** Sun 13.00.

THIRD PRGR: Mon-Fri 16.00–21.05, Sat/Sun 15.00–21.05 for Turkish, Italian, Spanish and Greek workers: N, commentaries.



Information and entertainment in 26 languages:

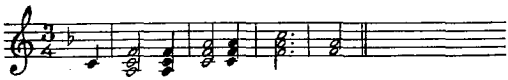
German · English · French · Spanish · Portuguese · Arabic · Persian · Swahili · Hausa · Indonesian Hindi · Urdu · Russian · Polish Hungarian · Serbo/Croat · Slovenian · Czech · Slovak · Bulgarian Roumanian · Turkish · Greek · Italian · Chinese

DEUTSCHE WELLE

5 Cologne · Brüderstr. 1 · P.O.B. 344 Federal Republic of Germany

DEUTSCHE WELLE

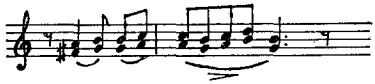
FM: München ch34 97.3Mc – Dillberg ch36 97.9Mc – Grünten ch29 95.8Mc: 17.00 Turkish, 17.45 Italian, 18.30 Spanish, 19.15 Greek.
ANN: "Hier ist der Bayerische Rundfunk". E: "This is der Bayerische Rundfunk" – **V.** by QSL-card or letter.
INT-SIG:



PUB: "Pressedienst" (weekly).
Telefunken AG' Germany, delivered four 20kW mw-tr's (Ismaning, Schwaben, Landau, Kirchheim), one 5kW tr (Nürnberg); FM-tr's: Landshut (0.1kW), Passau (0.25kW), Coburg (1kW), Würzburg (1kW), Hoher Bogen (3kW), Lindau (0.25kW), Hohe Linie (3kW), Hohenpeissenberg (3kW), Brotjacklriegel (10kW), Hühnerberg (2kW), Büttelberg (2kW), Lindau (0.3kW), studio equip. (recorders).
Kathrein Antennen, Germany, delivered FM-antennas.
Wilhelm Franz KG, Germany: EMT studio equipment.

RADIO BREMEN (Anstalt des öffentlichen Rechts)

AD: Mon–Fri: 06.05–06.30, 12.25–13.30, 16.30–17.00. Sat: 06.05–06.30, 12.10–13.15, 17.30–17.50 – **ADDR:** Heinrich-Hertz-Str. 13, Bremen. **Te:** 230041. **Cable:** Radio – **L.P:** Intendant: H. Kerneck. Dir. Prgr. and TV: H. Abich. Dir. Tec: H. Heyer.
HOME SCE: First Prgr: W 05.00–23.05. Sun 06.00–23.05.
Bremen 1358kc 221m 20kW – Bremerhaven 1079kc 278m 2kW 6190kc 48.47m 10kW: D 07.00–23.05.
FM: Bremen I ch23 93.8Mc 100kW – Bremerhaven I ch8 89.5Mc 0.5kW.
N, Wrp, Comm: W 05.05, 05.30, 06.00, 06.30, 07.00, 07.30, 12.00, 15.00(Sat only), 15.30, 17.00(exc. Sat), 18.30, 21.00, 23.00. Sun 06.05, 10.00, 12.00, 18.30, 21.00, 23.00.
Second Prgr: W 16.30–22.05. Sat 15.05–23.00. Sun 09.00–22.00(exc. 12.00–15.00).
Bremen II ch4 88.3Mc 100kW – Bremerhaven II ch17 92.1Mc 5kW
N: W 18.00, 20.00, 22.00(exc. Sat). Sun 09.00, 22.00 – **L.L: English:** Tues 14.15, Wed 08.45, 14.00, Thurs 08.30, 14.00*, Fri 08.30*. **French:** Thurs 08.30*, Fri 08.30* – * fortnightly – **Mbg:** Sun 16.30.
ANN: "Hier ist R. Bremen mit dem ersten bzw. zweiten Programm".
INT-SIG: Mass in H minor by Bach.



V. by QSL-card. Rp. Re. in E, F, or G – **PUB:** Prgr.sched. free on request to Pressetelle, Radio Bremen.
Telefunken A.G. Germany delivered 20kW mw-tr (Bremen), FM tr's: Bremen (0.3 and 3kW), studio equip. (recorders).
Wilhelm Franz KG, Germany, delivered EMT studio equipment.

HESSISCHER RUNDFUNK (Anstalt des öffentlichen Rechts)

I=Prgr. I; II=Prgr. II; III=Prgr. III – **AD:** W 07.15–08.00(I+II), 09.10–09.30(II), 10.10–10.30(I), 11.10–12.00(II), 12.10–13.00(I).
ADDR: 6000 Frankfurt (Main) 1, Postfach 3294, Bertramstr. 8. **Cable:** Hessfunk. **Te:** 59051. **Telex:** 04 11127.
L.P: Intendant: W. Hess. Personal Adviser: Dr. H. Prescher. Dir. Adm: Dipl-Kfm: H. Weber. Dir. of Staff: W. Heckroth. Chief Legal Adviser: W. Lehr. Press: R. Weigand. Publ. Rel. Dr. J. Bengsch. Dir. Prgr (Radio): Dr. H. Wicht. Dir. Prgr (TV): H. Otto Grünefeldt. Dir. Tec: Dr.-Ing. F. Miseré. Politic & N: Chief Editor O. Herr. Culture: Dr. A. Frisé. Educ: Dr. G. Kadelbach. Music: Dr. H. W. Kulenkampff. Entertainment: W. Jaspert.
STATIONS: Prgr. I
Frankfurt 593kc 505.8m 100kWd – Meissner 593kc 505.8m 20kWd.

FM:	ch	Mc	kW		ch	Mc	kW
Biedenkopf	2	87.6	10	Hardberg	19	92.7	0.25
Feldberg	8	89.4	10	Meissner	8	89.4	10
Würzburg	4	88.2	0.25	Rimberg	14	91.25	3
Prgr. II	**ch**	**Mc**	**kW**		**ch**	**Mc**	**kW**
Hardberg	12	90.6	0.25	Biedenkopf	42	99.6	10
Meissner	28	95.4	10	Feldberg	32	96.6	10
Würzburg	35	97.5	0.25	Rimberg	27	95.0	3
Prgr. III	**ch**	**Mc**	**kW**		**ch**	**Mc**	**kW**
Feldberg	25	94.4	10	Meissner	40	99.0	0.8

HOME SCE: Two prgr's day and night. The night prgr. at 23.10–05.00 only 593kc (Frankfurt or Meissner) – **N.** every h on the h – **Wrp:** after N – **Comm:** D 18.10(I), 19.00(II) – **L.L:** English/French: Sat 08.25(II).
Third Prgr: W 17.00–21.00 for Italian, Turkish, Spanish and Greek workers in the Fed. Rep – **ANN:** "Hier ist der Hessische Rundfunk" or "Hier ist Frankfurt" – **INT-SIG:** Electronic music – **V.** by QSL-card – **PUB:** Prgr.schedule, press releases (half yearly, yearly and weekly).

NORDDEUTSCHER RUNDFUNK
(Anstalt des öffentlichen Rechts)

FI: By license payments – **ADDR:** Hamburg 13, Rothenbaumchaussee 132/34. **Cable:** Nordfunk. **Te:** 441931. **Studios: Flensburg:** Friedrich-Ebert-Str. 1 – **Oldenburg:** Oldenburg i.O. Jägerstr. 30 – **Berlin:** Berlin-Grünewald, Hubertusallee 26 – **Kiel:** Wall 74.
L.P: Intendant: G. Schröder. Finanzdir: G. Schulz. Dir. Tec: Dr. H. Rindfleisch.

HOME SERVICE

FIRST PRGR: D 03.55(Sun 04.58)–00.15(Sat 01.15). **Night Prgr.** on 520kc (Braunschweig), 701kc (Hamburg), 1570kc (Flensburg), 1568kc (Hannover, Oldenburg), Hamburg 92.1Mc, Harz 96Mc: Sun, Mon, Fri 00.15–03.30. Sat 01.15–04.30.

	kc	m	kW		kc	m	kW
Braunschweig	520	577	2	Flensburg	1570	191	10
Aurich	701	428	2	Hannover	1586	189	20
Lingen	701	428	2	Kiel	1586	189	5
Göttingen	971	309	5	Oldenburg	1586	189	40
Hamburg	971	309	100	Osnabrück	1586	189	5

FM Stations (relay m.w. prgr. exc. night prgr.)

	ch	Mc	kW		ch	Mc	kW
Götting.	5	88.55	1.2	Oldenb.	14	91.1	70
Bungsb.	10	89.9	4.5	Dannenb.	14	91.2	15
Harz	10	89.9	100	Kiel	14	91.3	3
Aurich	10	90.05	25	Osnabr.	18	92.4	0.5
Hambg.	11	90.3	80	Lingen	19	92.8	15
Heide	12	90.5	15	Lübeck	20	93.1	0.06
Hannov.	13	90.9	3	Flensbg.	21	93.2	15

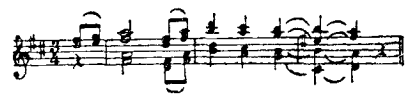
N, Wrp: D 04.00, 05.00(W), 06.00, 07.00(W), 07.55(Sun 08.00), 12.00, 16.00(exc. Sat), 18.00, 20.45, 23.00, 01.00, 02.00, 03.00 – **Rlg:** Sun 09.00, W 05.50.
SECOND PRGR: Mon–Fri: 05.00–12.30, 14.00–23.05. Sat 05.00–23.05. Sun 06.28–23.05.

	ch	Mc	kW		ch	Mc	kW
Flensbg.	9	89.6	15	Dannenb.	31	96.4	15
Lingen	11	90.2	15	Bungsbg.	36	97.8	4.5
Götting.	24	94.1	2	Harz	37	98.0	100
Oldenb.	25	94.4	70	Hannov.	39	98.7	3
Kiel	25	94.5	3	Osnabr.	39	98.8	2
Lübeck	29	95.7	0.06	Hambg.	41	99.2	80
Aurich	29	95.8	25	Heide	41	99.4	15

N: 06.30(W), 07.00(Sun), 07.30(W), 11.00(W), 18.55, 21.30.
THIRD PRGR. (1/10–31/5 only): **D:** 18.20–approx. 21.30. **N:** 19.00.

	ch	Mc	kW		ch	Mc	kW
Hambg.	2	87.6	80	Hannov.	30	95.9	3
Heide	3	96.3	15	Flensb.	30	96.05	3
Osnabr.	7	89.2	2	Götting.	30	96.1	1
Lübeck	13	90.9	0.06	Lingen	36	97.8	1.25
Bungsb.	16	91.9	4.5	Aurich	37	98.15	25
Harz	17	92.1	100	Kiel	38	98.3	3
Dannenb.	21	93.3	1	Oldenb.	43	99.8	70

ANN: 1st Prgr: "Hier ist das Erste Programm des Norddeutschen Rundfunks" – 2nd Prgr: "Hier ist das Zweite Programm des Norddeutschen Rundfunks" – 3rd Prgr: "Hier ist das Dritte Programm des Norddeutschen Rundfunks und des Senders Freies Berlin".
INT-SIG: 1st Prgr: Motif from the first movement of Johs. Brahms' Symphony no. 2.



2nd Prgr: "Einen zerlegten Nonen-Akkord" – **3rd Prgr:** The tones "B-A-C-H" in Regerharmonization – **V.** by QSL-card – **PUB:** "Die Ansage" (weekly), Prgr.sched. (weekly).
Telefunken A.G. Germany, delivered mw-tr's: Hannover (20kW). Kiel (5/2kW), Oldenburg (20/40kW); FM-tr's: Heide (0.25 and 3kW), Hamburg (2×0.3kW, 2×10kW), Hannover (0.25, 1 and 3kW); studio equip. (recorders).
Kathrein Antennen, Germany, delivered FM-antennas.
Wilhelm Franz KG, Germany: EMT studio equip.

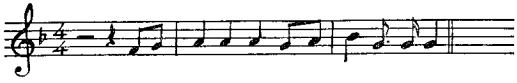
EUROPE NO. 1 (Comm.)

ADDR: Europäische Rundfunk und Fernseh AG, Europa Nr. 1, 6600 Saarbrücken, P.O. Box 301. **Te:** 2.41.62 – **L.P:** Mgr: F. Billmann. **For Programmes:** Télécompagnie 26 bis, Rue Francois Ier, Paris 8e. **Cable:** Euradio. **Te:** Alma 9000. **L.P:** Pres: S. Floirat. Gen.Mgr: M. Siegel – **For Advertisements:** Regie No. 1, 28, Rue Francois Ier, Paris 8e. **L.P:** Gen. Mgr: J. Frydmann.

STATION (System CFTH): Felsberg 182kc 1647m 400/1000kW, **HOME SCE. in French:** 05.00(Sun 05.30)–24.00. **N:** W every h on the h exc. 12.00, 19.00. Also 05.30; Sun 05.30, 07.00, 09.00, 10.00, 11.00, 13.00, 16.00, 17.00, 21.00, 22.00, 23.00, 24.00.
ANN: F: "Ici Europe No. 1" – V. by QSL-card. Re. to Europe No. 1, 663 Saarlouis, P.O. Box 209, Germany.
Telefunken A.G. Germany delivered studio equip. (recorders).
A.K.G. Austria, delivered studio equip. (recorders, microphones).
Wilhelm Franz KG, Germany: EMT studio equip.

SAARLÄNDISCHER RUNDFUNK

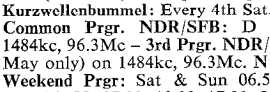
(Gemeinnützige Anstalt des öffentlichen Rechts)
AD: (1st Prgr only): 05.05–05.55, 06.15–07.30, 09.00–11.00, 11.30–13.30, 16.00–18.00, 18.35–19.00, 21.00–23.00. **ADDR:** 66 Saarbrücken, Postfach 1050. **Te:** 1050. **Cable:** Radio Saarbrücken. **Telex:** 4 428 977.
L.P: Intendant: Dr. Fr. Mai. Chefredakteur Hörfunk und stellv. Intendant: W. Diederich. Prgr. Dir. Hörfunk: Dr. W. Zilius. Chefredakteur Fernsehen: K. H. Reintgen. Techn. Dir: Dipl. Ing. F. Glasow. Verwaltungs Dir: Dipl. Volkswirt H. Fünfgeld (M.d.W.G.b.)
STATIONS: Heusweiler 141.5kc 211m 400kW. **FM:** Göttelborner Höhe: I ch3 88.0Mc 100kW – II ch14 91.3Mc 100kW – III ch28 95.5Mc 100kW.
HOME SCE. in German
1st Prgr (mw + FM I): Mon–Fri 04.00–00.05; Sat 04.00–Sun 04.59; Sun 05.00–00.05.
N, Wrp: W: 05.00, 06.00, 07.30, 12.00, 13.00, 15.00, 16.00, 17.00, 18.15, 21.00, 22.00, 23.00, 00.00. Sat only: 01.00, 02.00, 03.00, 04.00. Sun: 06.00, 07.00, 12.00, 16.00, 17.00, 18.00, 21.00, 22.00, 23.00, 00.00.
Prgr II (FM): Mon–Fri 17.00–22.00, Sat 13.30–22.00, Sun 07.15–13.00, 14.00–21.00. **N:** W 17.30, 21.30. Sun 12.00, 18.30, 21.00.
ANN: "Hier ist der Saarländische Rundfunk auf Wellenlänge 211m bzw. auf Ultrakurzwellen 88.0, 91.3 und 95.5MHz".



V. by QSL-card – **PUB:** Prgr.schedule, quarterly schedules, winter prgr's (yearly).
Telefunken AG, Germany: delivered studio equip. (recorders).
Kathrein Antennen, Germany: FM-Antennas.
Wilhelm Franz KG, Germany: EMT studio equip.

SENDER FREIES BERLIN (Anstalt des öffentlichen Rechts)

AD: W 05.30–06.40, 10.00–11.15, from 16.30 – **ADDR:** Masuren Allee 8–14, 1 Berlin 19. **Cable:** Sender Freies Berlin. **Te:** 92031 – **L.P:** Vorsitzender d. Rundfunkrates: Dr. F. Suchan. Intendant: W. Steigner. Dir. Prgr: E. Schütz. Dir. Tec: U. Blässer. Dir. Adm: H. Koch.
HOME SCE:
Berlin 1st Prgr. *566kc 530m 20/100kW – **FM:** 88.75Mc 10kW
Berlin 2nd Prgr. 1484kc 202m 5kW – **FM:** 92.4 Mc 10kW
Berlin 3rd Prgr. **FM:** 96.3Mc 10kW.
* 01.00 until sunset 100kW, sunset until 01.00 20kW.
Mainprgr: Mon–Fri 03.58–03.30, Sat 03.58–04.30, Sun 04.58–03.30 on 566kc, 88.75Mc and on 291kc (wired broadc); also on 1484kc, 92.4 & 96.3Mc if not used for other prgr's.
N, Wrp: 04.00(W), 05.00(W), 06.00, 07.00(W), 08.00(Sun), 09.00, 10.00(W), 12.00, 14.00(W), 15.00(Sat), 16.00(not Sat), 18.00, 21.00, 23.00 – **Business N:** 13.55(Mon–Fri) – **Comm:** 21.10 – **Actualities:** 17.30(Mon–Fri) – **European Request Prgr:** Every 4th Tues 00.15–02.00. **Kurzwellenbummel:** Every 4th Sat. 22.45–23.00.
Common Prgr. NDR/SFB: D 15.00–18.20(June–Sept. 22.00) on 1484kc, 96.3Mc – **3rd Prgr. NDR/SFB:** D 18.20–22.45 (approx) (Oct–May only) on 1484kc, 96.3Mc. **N:** 19.00.
Weekend Prgr: Sat & Sun 06.58–23.00 on 92.4Mc, 209kc (wired broadc). **N:** 07.00, 13.00, 17.00, 22.00, 23.00 – **Kurzwellenbummel** (by Uthoff): Every 4th Sat 21.25–21.40. **Music (Berlin):** Mon–Fri 15.00–22.00 on 94.4Mc, 209kc (wired broadc). **N:** 16.00, 17.00, 19.00, 20.00, 21.00, 22.00.
ANN: "Hier ist der Sender Freies Berlin mit dem ersten Prgr... zweiten Prgr" – **INT-SIG:** Cembalo:



V. by QSL-card – **PUB:** "Vorschau" (weekly).
Telefunken AG, Germany: delivered mw-tr's: 2 × 5kW, 1 × 100kW. FM-tr's: 1 × 0.3kW, 1 × 3kW; studio equip. (recorders).

SÜDDEUTSCHER RUNDFUNK

(Anstalt des öffentlichen Rechts)
AD: W: 06.05–06.55, 12.00–13.15 – **ADDR:** 7000 Stuttgart-1 P.O. Box 837. **Cable:** Rundfunk, Stuttgart. **Te:** 299701. **Telex:** 0723456.
Studios: Heidelberg-Mannheim: Heidelberg, Marstallstr. 6, Karlsruhe: Kriegsstr. 168 – **L.P:** Vorsitzender des Rundfunkrats: Dr. Valentin Gaa, Landrat, Mannheim. Vorsitzender des Verwaltungsrats: Dr. rer. nat. h. c. Dr. ing. e. h. Alex Möller, Generaldir. (MdB), Karlsruhe, Intendant: Dr. Hans Bausch. Programmdir: Dr. Peter Kehm. Verwaltungsdir: Friedrich Müller. Technischer Dir: Dr. Helmut Rupp. Dir. TV: Horst Jaedicke.
HOME SCE: Mw Prgr (rel by sw and FM): Sun 04.55–24.00. Mon 03.51–03.45. Tues, Thurs 03.56–23.15. Wed 03.56–03.55. Fri 03.56–03.45. Sat 03.56–24.00. No break in tr's.

Stations	kc	m	kW		kc	m	kW
Mühlacker	575	522	300	Bad Mergenth.	1412	212	3
Heidelberg				Wertheim	1484	202	0.2
Dossh.	998	301	10	Heidenheim	1484	202	0.2
BuchenWalldürn	998	301	0.2	Eberbach	1484	202	0.2
Ulm-Jungingen	1169	257	5	Mosbach	1484	202	0.2
Heilbronn-				Bopfingen	1484	202	0.2
Obereisesh.	1169	257	10	Adelsheim	1484	202	0.2

Short Wave: Mühlacker: 6030kc 49.75m 20kW: 03.55(Sun 04.55)–23.15(Sat/Sun 24.00).

FM:	ch	Mc	kW		ch	Mc	kW
Stuttgart I	26	94.7	100	Aalen I	27	95.1	50
Waldenburg I	39	98.8	100	Geislingen I	28	95.5	0.5
Heidelberg I	36	97.8	100	Ulm I	25	94.5	1

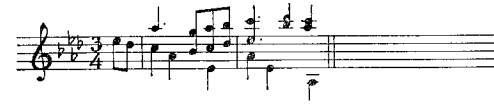
N: 04.30, 05.00, 06.00, 07.00, 08.00, 11.30, 16.00, 17.00, 18.00, 21.00, 23.00.
FM: 2nd Prgr: Sun 04.55–23.10. Mon 03.51–23.15. Tues, Wed, Fri 03.56–23.15. Thurs 03.45–23.15. Sat 03.56–24.00. No break in tr's.

	ch	Mc	kW		ch	Mc	kW
Stuttgart II	10	90.1	100	Stuttgart IIF	3	88.0	0.5
Waldenburg II	23	93.8	100	Heidelberg II	6	88.8	100
Aalen II	14	91.1	50	Mühlacher	8	89,5	4,5
B. Mergenth. IIA	3	87,8	0,5	B. Mergenth. IIB	21	93.2	0.5
Geislingen II	20	93.0	0.5	Wertheim II	16	91.8	0.1
Ulm II	7	89.2	1.0	Buchen	16	91.9	0.1

N: 05.30, 06.30, 07.30, 12.00, 13.00, 16.30, 17.30, 18.30, 21.30, 23.00.
FM (3rd Prgr): For Foreign Workers and Stereo:

	ch	Mc	kW		ch	Mc	kW
Stuttgart III	17	92.2	100	Heidelberg III	43	99.9	5
Waldenburg III	32	96.5	100	Ulm III	35	97.4	1
Aalen III	37	98.1	50				

17.00 Turkish, 17.45 Italian, 18.30 Spanish, 19.15 Greek.
Stereo: W 08.00–08.30, 15.30–16.00 (test), 16.00–16.55 (music). Sat/Sun 20.00–21.00 (music).
ANN: "Hier ist der Süddeutsche Rundfunk" – **INT-SIG:** The first notes of a Swabian folksong: "Jetzt gang i ans Brünnele"



V. by QSL-card.
Telefunken AG, Germany: delivered mw-tr's: 1 × 5kW (Ulm), 1 × 100 kW (Mühlacker), FM-tr's: 2 × 0.3kW (Ulm, Geislingen), 2 × 3kW (Aalen), studio equipment (recorders).
Kathrein Antennen, Germany: FM-Antennas.
Wilhelm Franz KG, Germany, delivered EMT Studio equipment.

SÜDWESTFUNK (Anstalt des öffentlichen Rechts)

AD: M.w: Mon, Tues, Thurs, Fri: 09.00–15.05, Wed 09.30–10.55, Sat 12.30–13.20, 17.10–17.30 – **FM:** W 06.10–06.40, Mon–Fri 07.05–09.00, 17.10–17.40, Sat 07.05–08.30.
ADDR: Anstalt des öffentlichen Rechts, Hans Bredowstrasse, Baden-Baden. **Cable:** Südwestfunk Baden-Baden. **Te:** 761. – **Studios: Freiburg i Br:** Günterstal, Kyburg. **Mainz:** Deutschhausplatz 8. **Tübingen:** Matthias-Koch-Weg 7. – "Zweigstellen": **Kaiserlautern:** Auf dem Sess. **Koblenz:** Januarius-Zick-Str. 8. **Trier:** Christophstrasse 24.
L.P: Vorsitzender des Rundfunkrates: J. Saxler Daun. Vorsitzender des Verwaltungsrates: Dr. J. Knecht, Freiburg i Br. Intendant: H. Hammerschmidt. Programmdir. u. stellvertretender Intendant: G. Gaus. Tech. Dir: Dr. H. I. v. Braunmühl. Verwaltungsdir: A. Manke. Press u. Inf: H. R. Fröbel. Leiter Freiburg Studio: E. Brugger. Leiter Mainz Studio: T. W. Zwermann. Leiter Tübingen Studio: A. G. Richter.

HOME SERVICE

Prgr. I: Sun 05.50–24.00, W 04.45–23.10 (Fri 00.10, Sat 01.00). **"Musik bis zum frühen Morgen"** on 1016kc only (Rheinsender): Sun, Thurs 00.00–04.40, Tues 23.10–04.40, Sat 01.00–05.00.

M Waves:	kc	m	kW		kc	m	kW
Baden-Baden	827	363	1.5	Trier	827	363	1
Freiburg	827	363	40	Rheinsender	1016	295	300
Kaiserlautern	827	363	3	Bodenseesender	665	451	150
Koblenz	827	363	0.5				

Short Wave: Bodenseesender 7265kc 41.29m 1.5kW.

FM (with stereoprgr's):

	ch	m	kW		ch	m	kW
Baden-Baden	40	98.9	0.5	Koblenz	23	94.0	2.5
Betzdorf	20	93.1	0.35	Linz	35	97.4	18
Blauen	19	92.6	8.4	Potzberg	23	93.9	20
Feldberg/				Raichberg	16	91.8	12
Schwarzw.	36	97.9	1	Wannenberg	19	92.8	1
Haardtkopf	20	93.0	25	Witthoh	11	90.4	37.5
Hochrheinsend.	14	91.1	0.07	Donnersberg	17	92.0	60
Hornisgrinde	31	96.2	60	Eggberg	38	98.5	0.6

N. Wrp: 04.50(W), 06.00, 07.00, 08.45(W), 11.50, 15.00(W), 21.00, 23.00 – **"Tribüne der Zeit":** W 18.30, Sun 18.40 – **"Deutsche Pressestimmen":** Mon-Fri: 12.05 – **Wrp:** 06.55, 18.30(W) – **Mbg:** Sun 17.10. **Stereo Prgr's:** Mon 16.00, Tues 11.30, Wed 22.15, Thurs 15.30, 19.00, Fri 12.15, 14.15, 19.00, Sun 12.15, 19.00.

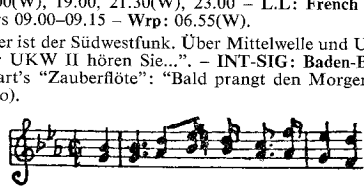
Prgr. II: Sun 05.50–24.00, W 04.45–23.10 (Wed 24.00, Sat 01.00).

FM	ch	Mc	kW		ch	Mc	kW
Baden-Baden	13	90.9	0.5	Koblenz	15	91.6	2.5
Betzdorf	9	89.8	0.35	Linz	18	92.4	18
Blauen	7	89.2	8.4	Mainz	15	91.4	0.035
Eifel	14	91.1	8	Potzberg	13	90.8	20
WDR-Progr.	22	93.8	8	Raichberg	4	88.3	12
Feldberg/				Waldburg	14	91.2	18
Schwarzw.	9	89.8	1	Wannenberg	7	89.0	1
Haardtkopf	10	90.0	25	Weinbiet	10	89.9	25
Hochrheinsend.	3	88.0	0.07	Witthoh	18	92.4	37.5
Hornisgrinde	22	93.5	60	Wolfsheim	5	88.4	18
				Eggberg	33	97.0	0.6

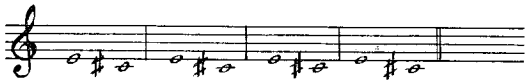
Prgr. III	ch	Mc	kW		ch	Mc	kW
Koblenz	30	96.05	0.5	Feldberg	23	93.8	1
Donnersberg	40	99.1	60	Raichberg	24	94.3	12
Hornisgrinde	38	98.4	9				

N. Wrp: 04.50(W), 06.00, 07.00(W), 09.00(Sun), 11.00(W), 13.45 (Sun), 15.00(W), 19.00, 21.30(W), 23.00 – **L.L: French by R:** Tues, Wed, Thurs 09.00–09.15 – **Wrp:** 06.55(W).

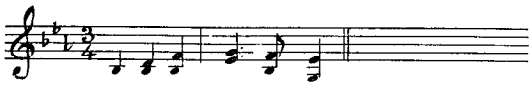
ANN: "Hier ist der Südwestfunk. Über Mittelwelle und UKW I hören Sie... Über UKW II hören Sie...". – **INT-SIG: Baden-Baden:** Motif from Mozart's "Zauberflöte": "Bald prangt den Morgen zu verkünden" (Piano).



Freiburg: Glockenmotiv des Freiburger Münsters: "Petrus und Maria"



Tübingen: "Droben im Oberland" (2 horns).



V. by QSL-card and letter. Rp.
Telefunken A.G. Germany, delivered 20 FM tr's: Baden-Baden (2 × 025kw), Blauen (2 × 3kw), Koblenz (2 × 0.3, 2 × 1kw), Linz/Rhein (2 × 3kw), Potzberg (2 × 3kw), Wolfsheim (2 × 0.25, 2 × 3kw), Hornisgrinde (2 × 0.25, 2 × 10kw); studio equipment (recorders).
Kathrein Antennen, Germany: FM-Antennas.
Wilhelm Franz KG, Germany: delivered studio equipment.

WESTDEUTSCHER RUNDFUNK (WDR)

(Anstalt des öffentlichen Rechts) – FI: By license payments.

ADDR: Wallrafplatz 5, Köln. **Te:** 20701. **Cable:** WDR.
Studios: 53 Bonn, Dahlmannstrasse 14; 4 Düsseldorf, Palmenstrasse 16; 46 Dortmund, Westenhellweg 86–88; 44 Münster, Ludgeriplatz; 48 Bielefeld, Lessingstrasse 3; 43 Essen, Lindenallee 56.
L.P: Intendant: Klaus von Bismarck. Verwaltungsdirektor und Justitiar: Dr. H. Brack. Sound Dir: Dr. F. Brühl. Dir. Tec: W. Werner. Verwaltungsleiter: E. Przybylla. Int. Prgr. Austausch: Frau F. Hömke. Pressechef: J. Rick.

HOME SCE: First Prgr: W: 04.55–09.30, 10.45–00.10; Sun 05.55–00.10. **Night Prgr** (on 971kc only): 00.10–04.50(Sat night 05.50).

Medium Waves:	kc	m	kW		kc	m	kW
Aachen/Stolb	701	428	5	Münster	1502	199.7	0.8
Herford	701	428	2	Bonn	1586	189	5
Siegen	701	428	2	Kleve	1586	189	3
Langenberg	971	309	100				

FM. Common WDR and NDR mw prgr.

	ch	Mc	kW		ch	Mc	kW
Aachen-Stolb	3	88.0	5	Münster	17	92.0	6
Bonn	4	88.3	0.5	Nordhelle	11	90.3	15
Kleve	42	99.7	0.25	Siegen	4	88.2	0.5
Köln	3	87.8	0.5	Wittgenstein	6	88.7	15
Langenberg	6	88.8	100	Teutob. Wald	12	90.6	100
Monschau	2	87.7	0.04				

N, Wrp: W 05.00, 06.00, 07.00, 07.55, 11.00, 12.00, 15.00, 16.00 (W) no Wrp, 18.00, 20.30, 23.00; Sun: 06.00, 07.00, 07.45(Church N), 08.00, 12.00, 15.00, 18.00, 20.30, 23.00. In addition during "Music bis zum frühen Morgen" (5 mins. each) 01.00, 02.00, 03.00, 04.00 during night of Fri to Sat – **Comm:** Mon–Fri 12.10, 18.10, 20.45 – **Wrp:** Repeats of short version within music prgr's at 05.30, 06.30, 07.30.

Second Prgr: 04.55–23.00(Sat 24.00), Sun 05.55–23.00.

	ch	Mc	kW		ch	Mc	kW
Aachen-Stolb	23	93.9	5	Monschau	24	94.2	0.04
Bonn	19	92.8	0.5	Münster	24	94.1	18
Eifel	22	93.6	6	Nordhelle	22	93.5	15
Kleve	21	93.3	0.25	Siegen	19	92.6	0.5
Köln	16	91.8	0.5	Teutob. Wald	21	93.2	100
Langenberg	27	95.1	100	Wittgenstein	18	92.3	15

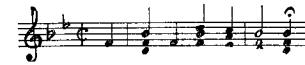
N, Wrp: W 05.30, 06.30, 07.30, 11.30, 14.30, 17.00 (no Wrp), 18.45, 21.30, 22.30; Sun 07.30, 11.45, 18.45, 21.30.

3rd Prgr: D 18.45–21.30(approx), Sun also 14.30–17.00(approx).

	ch	Mc	kW		ch	Mc	kW
Langenberg	41	99.2	100	Kleve	34	97.3	0.25
Münster	9	89.7	6	Köln	29	95.7	0.5
Nordhelle	37	98.1	15	Monschau	37	98.2	0.04
Teutob. Wald	33	97.0	100	Siegen	34	97.1	0.5
Bonn	12	90.7	0.5	Wittgenstein	29	95.8	15
Aachen-Stolberg	30	95.9	5				

N: D 18.45.
Prgr. for foreign Workers: D 16.55–20.00 Aachen-Stolberg ch 30 95.5Mc 5kW: Langenberg ch 45 100.4Mc 50kW – Teutoburger Wald ch 33 97.0Mc 5kW (17.45–18.30 only Sun–Fri).
Stereo-Transmissions (in 3rd Prgr. only): Sat 17.00–18.30. Sun 19.00–21.30 (approx).

ANN: MW-Prgr: "Westdeutscher Rundfunk Erstes Programm" – FM-Prgr: "Westdeutscher Rundfunk, Zweites Programm", "Westdeutscher Rundfunk, Drittes Programm".
INT-SIG: M.W. Prgr: Motif from "In allen guten Stunden" (L. van Beethoven). Electronic instrument.



V. by QSL-card or letter. Re. to Technische Direktion – **F.PL:** Extension of prgr. for Foreign workers.

RIAS–BERLIN (Berlin West)

FI: By United States Information Agency.
ADDR: 1 Berlin 62, Kufsteiner Str. 69. **Cable:** Rias-Berlin. **Te:** 710271 – **L.P:** Dir: R. H. Lochner. Pol. Dir: R. Müllerburg. Dir. Prgr: H. Kundler. Dir. Tec: A. Pösniker. Dir. Adm: P. Naegele. Dir. Listeners Rel. and Press: H. Kirstaedter.

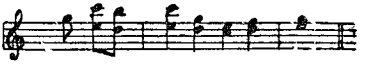
STATIONS: [1]=RIAS I, [2]=RIAS II, [3]=VOA (RIAS II).

	kc	m	kW	summer	winter
				h. of tr.	
Berlin-Britz[2]	683	439	100	03.55–16.59	06.50–15.40
Hof[2]	683	439	40d	17.00–01.05	03.55–06.50
					15.41–01.05
Hof[2]	737	407	40	03.55–16.59	06.51–15.40
Berlin-Britz[2]	854	351	100d	17.00–23.15	03.55–06.50
					15.41–23.15
Berlin-Britz[1]	989	303	300	03.00–00.15	03.00–00.15
			100	00.15–03.00	00.15–03.00
Berlin-Britz[2]	6005	49.96	20	17.00–03.45	17.00–03.45
München[3]	6005	49.96	100	03.55–16.59	03.55–16.59

FM: Berlin-Britz[2] 89.5Mc 30kW – [1] 94.3Mc 50kW, Hof[2] 91.2Mc 20kW

D.PRGR: 24 h – Prgr. separation into RIAS I and RIAS II: Sun 06.15 (Sat 13.30)–23.00, Mon–Fri 09.00–09.45, 14.00–14.45, 17.00(Fri 16.03) –23.00(Fri 23.45). All other times **common prgr.** (RIAS I+RIAS II).
N, Wrp: 00.00, 01.00, 03.00, 04.00, 04.30, 05.30, 06.30, 08.30, 10.30(W), 11.30(W), 12.00(Sun), 12.30(W), 15.30 – **RIAS I:** 18.00, 20.30(W), 21.00(Sun), 23.00 – **RIAS II:** 11.30(Sun), 15.30(Sun), 18.30, 21.00(Sat), 21.30(Sun), 23.00(W).
RIAS I: Comm: 18.10, 20.45(W) – **Rel, VOA:** 17.45(Mon–Fri) – **Press review:** 06.40(Tues–Sat), 11.40(W) – **Actualities:** W 03.55, 07.10, 12.40, 17.15(Mon–Fri).
RIAS II: Comm: 18.30(W) – **Rel. VOA:** 09.30(Wed), 17.00(D exc. Sat) – **Actualities:** 17.40, 18.00(Mon–Fri), 21.00.

ANN: "Hier ist RIAS-Berlin" – INT-SIG: From a Trio Sonata



V. by QSL-card – PUB: Press service weekly RIAS educationbroadcast press service every six weeks.
Continental Electronics, USA: 1000kW-tr. Munich.
Telefunken AG, Germany: mw-trs: Berlin-Britz 1×300kW, 1×100 kW, sw-tr. 1×20kW, FM-tr. 1×10kW, Hof mw-tr. 1×40kW; Rohde & Schwarz: Berlin-Britz FM-tr. 1×10kW; Hof FM-tr. 1×10kW; Telefunken, Siemens, Neumann delivered studio equipment.

ALLIED STATIONS

AMERICAN FORCES NETWORK (United States Army)

The American Forces Network operates solely to provide American Forces in Europe with information, education and entertainment.
ADDR: American Forces Network, Europe APO US Forces 09757 or APO New York, NY 09757, N.Y. USA. Te: Frankfurt 314.880 – **L.P:** Commanding Officer: Lt. Col. V. Bloecker. Prgr. Dir: F. Mc Laughlin. Techn. Supervisor: F. C. Mortensen.

STATIONS:	kc	m	kW		kc	m	kW
Nürnberg*	611	491	10	Würzburg	1142	263	0.25
Grafenwöhr	611	491	10	Bamberg	1304	260	0.25
Kaiserslaut*	611	491	10	Berchtesgaden	1304	230	0.25
Frankfurt*	872	344	150	Heidelberg	1304	230	1
Berlin*	935	321	10	Regensburg	1304	230	0.25
Ansbach	1034	290	0.25	Fulda	1304	230	0.25
Bad Kissingen	1034	290	0.25	Wertheim	1304	230	0.25
Munich*	1106	271	100	Augsburg	1394	215	1
Stuttgart*	1142	263	10	Bitburg	1394	215	0.25
Ulm	1142	263	1	Hof	1394	215	0.25
Goeppingen	1142	263	0.25	Garmisch	1502	199	0.25
Bremerhaven*	1142	263	5	Giessen	1502	199	0.25
Hersfeld	1142	263	0.25	Rothwesten	1502	199	0.25
Schweinfurt	1142	263	0.25	Wildflecken	1502	199	0.25

FM: Berlin 87.85Mc 1.5kW, Frankfurt 98.7Mc 55kW, Stuttgart 102.4Mc 10kW. * Studio Installations.
D.PRGR: 05.00(Sun 06.00)–00.05 (Berlin: 24 h) – **N:** Every h on the h (5 min)+major newscasts (30 min) at 06.00, 17.00, 21.00 – **Hymns from Home:** Mon–Fri 18.45 – **Request Shows:** 05.05, 06.30, 10.30, 11.15, 15.05, 16.05 – **Local N:** 17.25 – **Rel:** Sun 09.30 (Catholic), 10.05 (Protestant).
ANN: "This is AFN, The American Forces Network, Europe" announced at least every half h – **INT-SIG:** Every h on the h. AFN announces the time and the sixth and final pip is exactly on the h as announced – **V.** by QSL-card. Recordings accepted – **PUB:** Prgr. sched. (weekly) not available to individuals.
Continental Electronics, USA, delivered 1kW mw-tr's (Kaiserlautern, Heidelberg, Berlin, Bremerhaven, Grafenwöhr), 10kW-tr. (Kaiserlautern).
Telefunken AG, Germany, delivered 1×0.3kW FM tr. (Berlin).

BRITISH FORCES BROADCASTING SERVICE (Military)

BFBS is operated by the War Office for the purpose of providing entertainment and a reliable news service for H.M. Forces in N.W. Germany and Berlin. It is a non-comm. organization, does not accept adv – **ADDR:** BFBS Cologne, 5 Köln-Marienburg, Parkstr. 61. Te: 381757 Cologne Civil – **L.P:** St. Contr: P. Thurstan Holland. Tec. Dir: J. W. Bull. SPO: M. A. Pachebat.

FM-st's:	Mc	kW		Mc	kW		Mc	kW
Langenberg	96.5	50	Bonn	99.8	2	Berlin	98.75	1
Nordhelle	96.5	15	Herford	95.4	6	Drachenberg	93.0	80
Verden	97.6	50						

English: 05.30(Sun 07.00)–22.30(Sat 24.00).
N (from BBC): 07.00, 08.00, 12.00, 17.00(Sat/Sun only), 21.00. N. summaries on the half h hourly – ANN: "This is the British Forces Broadc. Sce. Germany" or "You are tuned to FBS in Germany" – **V.** by letter Rp – **PUB:** BFBS bulletin weekly.

RADIO CAE (Canadian Army Europe)

ADDR: CFPO 5050, Werl – **L.P:** St. Mgr: H. Konow. Prgr. Dir: B. McMillan – **STATION:** 87.8Mc 0.25kW.
D.PRGR'S in English & French: Mon–Fri 05.30–23.00, Sat 09.00–24.00, Sun 09.00–23.00 – **N:** W 06.00, 12.00, 14.00, 16.00, 18.00, 21.30; Sun 13.00, 16.00, 18.00, 21.30 – **L.L** (Lernt Deutsch): Mon, Tues, Thurs, Fri 09.50. Musical entertainment: local N, Wrp, sports, ann, community affairs – Other prgr's rel. CBC Montréal.

RADIO FORCES FRANCAISES DE BERLIN (FFB)

Relay st. for entertainment of French Forces in Berlin.
ADDR: Kurt-Schumacher-Damm, Quarter Napoléon, Berlin-Reinickendorf – **FM:** 93.6Mc 3kW: Continuously exc. from 08.00–09.00 (Mon) and Thurs 23.00–Fri 06.00 – **Rel:** RTF Programmes. **N:** 07.00, 12.00.

RADIO FREE EUROPE (Private, non-comm.)

FI: By American contribution through the Radio Free Europe Fund.
ADDR: R. Free Europe, Division of the Free Europe Commit, 2 Park Avenue, New York 16, N.Y., USA. **Cable:** Natfecom, N.Y. **Te:** LExington 2-8900 – R. Free Europe Hqs, 1 Englischer Garten, München 22, Germany. **Cable:** Raduropa. **Te:** 229921 – **Raret** (Portugal relay base), Sociedade Anonima de R. Retransmissão, Av. Padre Manuel da Nobrega 8-B, Lisbon. **Cable:** Raretsa. **Te:** 721131.
L.P: Free Europe Commit. (New York): Pres: John Richardson, Jr. RFE Hqs (Munich): Dir: C. Rodney Smith. Dir. of Eng. and Sce's: R. E. Geiger. New York Office: Dir: H. Fischer. Dep. Dir. Eng: W. H. Moffat. Dir. of Eng: H. N. Black.

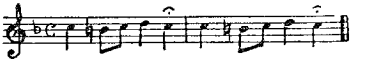
STATIONS: **Medium Wave** (System: Brown Boveri):
Holzkirchen 719 kc 417.2 m 135 kW.
Short Wave: 9 sw-tr's in Biblis, Germany (10/20/50kW), 18 sw-tr's near Lisbon, Portugal (4/250kW, 4/100kW, 8/50kW, 1/25kW & 1/10kW) and 4 sw-tr's near Holzkirchen, Germany.

kc	m	kc	m	kc	m	kc	m	kc	m
3960	75.75	6160	48.70	9505	31.56	11805	25.41	15355	19.54
3970	75.57	6185	48.50	9520	31.51	11815	25.39	15365	19.53
3990	75.19	7105	42.22	9595	31.27	11820	25.38	15405	19.47
3995	75.09	7115	42.16	9605	31.23	11830	25.36	15420	19.46
5960	50.37	7140	42.02	9635	31.14	11840	25.34	17725	16.93
5965	50.29	7145	41.99	9655	31.07	11855	25.31	17735	16.92
5970	50.25	7155	41.93	9670	31.02	11885	25.31	17770	16.88
5985	50.12	7165	41.87	9695	30.95	11895	25.22	17805	16.85
5990	50.08	7175	41.80	9705	30.91	11915	25.17	17835	16.82
6015	49.88	7180	41.78	9710	30.90	11930	25.15	17840	16.82
6020	49.83	7190	41.72	9715	30.88	11940	25.15	17855	16.80
6025	49.79	7195	41.70	9720	30.86	15115	19.85	17865	16.80
6070	49.42	7205	41.64	9725	30.85	15135	19.82	17875	16.79
6080	49.34	7210	41.61	9750	30.77	15145	19.81	17885	16.78
6095	49.22	7225	41.52	11725	25.59	15170	19.78	21485	13.97
6105	49.14	7235	41.47	11735	25.56	15185	19.76	21600	13.89
6120	49.02	7245	41.41	11745	25.54	15195	19.74	21620	13.87
6125	48.98	7255	41.35	11755	25.52	15215	19.71	21665	13.84
6130	48.94	7285	41.18	11760	25.51	15255	19.66	21680	13.84
6140	48.86	7295	41.12	11775	25.48	15265	19.66	21720	13.81
						15295	19.61	21745	13.80

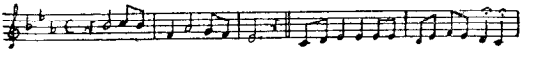
Most RFE freq's are registered for use both in Germany and in Portugal and the selection of tr. location is a function of propagation conditions throughout the year.
D.PRGR: directed to Bulgaria, Czechoslovakia, Hungary, Poland, and Rumania:

Bulgarian Prgr.	**Oct.-March m.b.**	**April-September m.b.**
04.00–06.00	49, 41, 31	49, 41, 31, 25
16.00–21.30	49, 41, 31, 25, 19, 16	49, 41, 31, 25, 19, 16
Czech-Slovak Prgr.		
03.54[1]–22.00	75, 49, 41, 31, 25, 19, 16	75, 49, 41, 31, 25, 19, 16
22.40–23.00	417, 75, 49, 41, 31	417, 75, 49, 41, 31, 25, 19
Hungarian Prgr.		
03.55[2]–23.00	49, 41, 31, 25, 19, 16	41, 31, 25, 19, 16
Polish Prgr.		
03.55[3]–06.00	417, 75, 49, 41, 31	417, 49, 41, 31, 25
06.00–17.00	49, 41, 31, 25, 19, 16	49, 41, 31, 25, 19, 16
17.00–23.00	417, 75, 49, 41, 31, 25	417, 49, 41, 31, 25, 19
Rumanian Prgr.		
04.00–08.00	75, 49, 41, 31	49, 41, 31, 25
15.00–21.30	49, 41, 31, 25, 19, 16	49, 41, 31, 25

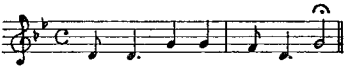
[1]=Sun 05.54, [2]=Sun 05.55, [3]=Sun 04.55.
N. every h on the h (for all Sce's).
Meter band assignments change throughout the year as propagation conditions vary.
ANN: Sign on and sign off: **Bulgarian:** "Took E Radio Svobodna Evropa" ("This is Radio Free Europe").
Czechoslovak: "Hlási se vám československá stanice rozhlasu Svobodná Evropa" ("This is the Czechoslovak Station of Radio Free Europe calling").
Hungarian: "Itt a Szabad Európa Radió" ("This is Radio Free Europe").
Polish: "Mówi rozglosnia Polska Radia Wolna Europa" ("This is the Polish station of Radio Free Europe").
Rumanian: "Aici e Radio Europa Libera" ("Here is Radio Free Europe").
INT-SIG: **Bulgarian:** Part of Bulgarian National Anthem (Celeste):



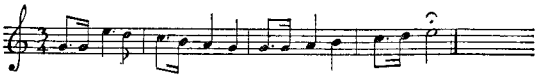
Czech/Slovak: Czech and Slovak National Anthem (Celeste):



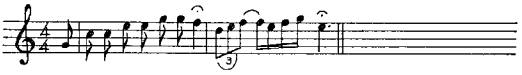
Hungarian: Old Hungarian folksong: "From the Tisza, past the Danube":



Polish: Polish patriotic song: "Hail Glorious Dawn of May". (Brass instruments):



Rumanian: Folk Motif (Orch & Flute):

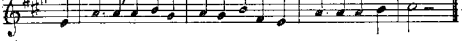


Wilhelm Franz KG, Germany, delivered EMT, studio equip.
V. by QSL-card. Recordings accepted.

RADIO LIBERTY (Private, non-comm.)
R. Liberty speaks to the people of the U.S.S.R. as a free voice of their fellow countrymen abroad. R. Liberty is supported by the R. Liberty Committee, Inc., which derives its funds from private persons and organizations in the U.S.A.
ADDR: Lilienthalstrasse 2, 8 Munich 19. **Cable:** RadLibComm. **Te:** 5130031 – **L.P:** Exec. Dir. R. Liberty: L. W. Shollenberger. Headquarters, New York: Pres. R. Liberty Committee, Inc: H. H. Sargeant.
STATIONS: Lampertheim (Germany): 50/20kW; Playa de Pals (Spain): 500/250/100kW; Pa-Li (Taiwan): 50kW.

kc	m	kc	m	kc	m	kc	m	kc	m
3990	75.19	7285	41.18	9750	30.77	15125	19.83	15445	19.43
5955	50.39	7295	41.12	11725	25.59	15130	19.83	17720	16.93
6095	49.22	9520	31.51	11770	25.49	15225	19.70	17755	16.90
6170	48.62	9555	31.40	11870	25.27	15340	19.56	17780	16.87
7155	41.92	9615	31.20	11935	25.14	15370	19.52	17875	16.79
7215	41.58	9660	31.06	11970	25.06	15380	19.50	17895	16.75
7220	41.55	9680	30.99						

D.PRGR: 00.00–24.00.
Target areas: E. Germany 75, 49, 41, 31, 25 m.b. – Hungary 75, 49, 41 m.b. – No.+So. Russia, Belorussia, Ukraine 49, 41, 31, 25, 19, 16 m.b. – Tatar ASSR, Bashkir ASSR, Caucasus, Soviet Central Asia 41, 31, 25, 19, 16 m.b. – Soviet Far East 16, 19, 25 m.b. – **N:** Every half h.
ANN: Azerbaijani: "Danyshyr Azadlyk Radiosu" – Armenian: "Chosume 'Azatutiun' Radiokayane" – Belorussian: "Gavaryts Radyio Svoboda" – Georgian: "Laparakobs Radiosadrugi Thavisuphleba" – No. Caucasian: "Govorit Radiostantsia Svoboda" – Russian: "Govorit Radiostantsia Svoboda" – Tatar-Bashkir: "Monda Azatlyk Radiostansyese Suyili" – Turkestani: "Azatlyk Radiosydan Gapiramiz" – Ukrainian: "Hovorit Radio Svoboda" – **INT-SIG:** Hymn to Freedom – by Gretchanioff. V. by QSL-card.



VOICE OF AMERICA RADIO STATION IN GERMANY
ADDR: Voice of America, Washington 25, D.C. USA.
Medium Wave: Munich A 1196kc 251m 150kW: 03.00–07.30, 16.00–23.45 – **Short Wave:** Munich 100kW: 03.00–07.30, 12.00–22.45.

3980 kc	75.38 m	9545 kc	31.43 m	15190 kc	19.75 m
6040 kc	49.67 m	9760 kc	30.74 m	17735 kc	16.92 m

Medium Wave: 03.00–04.00 Russian, 04.00–04.30 **English**, 04.30–04.45 Serbo-Croat, 04.45–05.00 Czech, 05.00–07.30 **English**, 16.00–18.30 **English**, 18.30–19.00 Hungarian, 19.00–19.30 Serbo-Croat, 19.30–20.00 Polish, 20.00–20.30 Czech, 20.30–21.00 French (to No. Africa), 21.00–21.15 Serbo-Croat, 21.15–21.30 Slovene, 21.30–22.00 Polish, 22.00–23.45 **English**.
Short Wave: See USA.
ANN: "This is the Voice of America Relay st. at Munich" – **INT-SIG:** 20 sec. variations of "Columbia, the Gem of the Ocean" – **V.** by QSL-card.

GERMANY

GERMAN DEMOCRATIC REPUBLIC

L.T: GMT+1 h – **Pr.L:** German.
STAATLICHES RUNDFUNKKOMITTEE (Gov.)
ADDR: 116, Berlin, Nalepastrasse 18–50. **Te:** 632831. **Cable:** Funkkomitee – **L.P:** Dir. Gen: Prof. Dr. h. c. G. Eisler. Vice Dir. Gen: R. Grimmer. Dir. Adm: H. Ebel. Dir. Tec: W. Schmidt. Dir. Foreign Rel: M. Müller. Intendant: K. Ehrich (Deutschlandsender), H. Classen (Berliner Rundfunk), W. Kleinert (R. DDR), C. Kirschnek (R. Berlin International).

HOME SERVICE

DEUTSCHLANDSENDER: D.Prgr: D 03.00–02.45.

Location	kc	m	kW
Berlin (Königswusterhausen)	185	1621.6	200/1000
Burg	782	383.6	250
Schwerin (Wöbbelin)	728	412.1	250
Suhl (Wachenbrunn)	692	433.8	250
Berlin	6115	49.06	20
Berlin	7300	41.10	5

FM:	ch	Mc	kW		ch	Mc	kW
Sonneberg	24	94.2	1	Karl Marx-Stadt	34	97.05	1
Schwerin	27	95.25	10	Inselsberg	34	97.15	10
Leipzig	32	96.6	10	Brocken	35	97.4	10
Marlow	32	96.65		Berlin-Köpenick	35	97.65	3
Dequede	33	96.9	1				

Sat/Sun 03.00–23.20, Mon–Fri 03.00–08.00, 11.00–23.20 on 185, 692, 728, 782, 6115, 7300kc and on all FM-st's.
Mon–Fri 08.00–11.00 on 185, 692, 782kc (Tues–Fri) and all FM-st's exc. 97.65Mc. D 23.20–02.45 on 782, 728kc, 97.65Mc.

N & Wrp: 00.00, 02.00, 03.05(W), 03.30(W), 04.00, 04.30(W), 05.00, 05.30(W), 06.00, 07.00, 09.00, 11.00, 12.00(W), 14.00, 16.00, 18.00, 20.30, 23.00.
Comm: 17.00, 23.10 (repeat) – **Actualities:** 09.10(W), 16.05(W), 17.10(W), 20.40(W) – **Press review:** 07.05(W), 12.10(W) – **Folklore:** Sun 07.40 (twice monthly), Mon 10.30 (three times monthly), Tues 20.00 (twice monthly), Wed 10.30 & 00.05 (once monthly), Fri 10.30 (twice monthly) – **Prgr. preview:** 06.55(W) – **Concert:** 00.35, 10.30. **Maritime Wrp** (on 185kc only): 02.45, 04.05 (on all freqs), 09.50, 16.50, 23.20.

BERLINER RUNDFUNK: D.Prgr: 03.00–02.00.
Medium Waves:

Station:	kc	m	kW		kc	m	kW
Karl-Marx-Stadt	602	498	20	Reichenbach	917	327.2	20
Berlin-Köpenick	611	491	500	Plauen	1079	278.1	20
Potsdam	656	457.3	20				

FM Stations:	ch	Mc		ch	Mc
Karl-Marx-Stadt	10	89.8	Brocken	15	91.55
Dresden	10	90.1	Sonneberg	16	91.7
Inselsberg	11	90.2	Marlow	22	93.5
Leipzig	11	90.4	Schwerin	38	98.55
Berlin	15	91.4	Dequede	40	98.9

03.00–23.10 on all freqs; 23.10–02.00 on 611kc only – Mon at 07.30–11.00 only on 656kc and 91.4Mc; Wed not on 656kc at 07.30–11.00.

N & Wrp: 00.30, 01.30, 03.05(W), 04.00(W), 04.30, 05.00(W), 05.30, 06.30, 07.30, 09.30, 11.30, 12.30(Sun), 14.00(W), 15.30(Sun), 18.30, 20.30, 22.30.
Comm: 11.30(Sun), 18.10(W), repeat 22.40(W) – **Actualities:** 20.40(W) – **Press Review:** 06.10(W), 10.50(W) – **Prgr. Preview:** 09.40(Sun), 11.57 (W), 17.30(W) – **Folklore:** Tues 12.00.
Regional Prgr's: Potsdam 656kc: W 05.00–08.00, 11.00–11.30 (agriculture prgr). **Frankfurt** 91.4Mc: 11.00–11.30 ("Frankfurter Visitenkarte").

BERLINER WELLE
Station: Berlin-Köpenick 1358kc 220.9m 50kW – ch42 99.7Mc 10kW.

D.PRGR: Sat/Sun 03.00–02.00; Mon–Fri 03.00–11.00, 14.30–23.10 on 1385kc, 99.7Mc – D 23.10–02.00 on 99.7Mc, 03.00–00.04(Sun 07.30), 12.30–15.30(Sun), 11.00–14.00(Sat) as Berliner Rundfunk.

N & Wrp: 00.30, 01.30, 04.00(W), 04.30(W), 05.00(W), 05.30(W), 06.00(W), 07.00(W), 08.00(W), 14.30(W), 16.00, 18.00, 20.00, 21.00, 22.00 – **Comm:** D 18.10 – **Actualities:** Sun 16.05, W 17.00 – **Folklore:** Sat 10.00 – **Prgr. Preview:** 08.05(W), 15.30(Sun), 17.30(W) – **Stereophonic experimental prgr's:** 17.30–18.00(Tues & Thurs).

RADIO DDR I: 24 h of information & entertainment.

Stations:	kc	m	kW		kc	m	kW
Schwerin	529	576.1	220	Berlin	881	340.5	100
Greifswald	557	538.6	5	Dresden	1043	287.6	220
Leipzig	575	521.7	120	Suhl	1052	285.1	20
Erfurt	629	476.9	20	Seelow	1546	194	5
Cottbus	746	402.1	20	Bernburg	1570	191.1	20

FM:	ch	Mc		ch	Mc
Inselsberg	3	87.85	Schwerin	7	89.2
Marlow	4	88.25	Dequede	8	89.4
Leipzig	5	88.45	Berlin	29	95.8
Brocken	6	88.95	Helpterberg	30	95.95

D.PRGR: 03.00–23.10 on all freq's; 23.00–03.00 on 557, 1043kc and Mon, Wed, Fri also on 575kc.
N & Wrp: W 04.00–22.00 every h on the h (exc. 19.00). D 00.30, 01.30. W 03.05, 03.30, 04.30, 05.30, 06.30. Sun 04.00, 05.00, 06.00, 08.00, 10.00, 12.00, 16.00, 18.00, 21.00 – **Actualities and Comm** (also on R. DDR II): 09.10(W), 18.10(D), 21.10(W) – **Rlg Sce:** Sun 06.30 – **Prgr. Preview:** 14.05(W) – **Folklore:** Tues, Thurs, Sat 07.05, Sat also 17.30.

Deutscher Demokratischer Rundfunk

Deutsche Demokratische Republik

D.D.R., 116 Berlin
Nalepastrasse 18-50

Telefon: 63 28 31

Telex: 011276-278

RADIO DDR II: D 09.00–23.10.

FM Stations:	ch	Mc	kW		ch	Mc	kW
Reinsberg	12	90.5	10	Leipzig	23	93.85	10
Marlow	14	91.05	10	Brocken	25	94.6	1
Dresden	17	92.25		Dequede	26	94.9	
Inselsberg	18	92.55	1	Berlin (Köpenick)	27	95.05	
Schwerin	19	92.75	10	Görlitz	28	95.4	
Karl-Marx-Stadt	19	92.85	10	Cottbus	39	98.6	

D.PRGR: N & Wrp: 09.00(W), 11.00, 12.00(Mon–Fri), 13.00(W), 14.00(Sun), 15.00(Sat), 16.30(Sun), 17.00(W), 18.00(Sun), 21.00. **L.L:** 10.40–10.55: **E** (Wed), **F** (Tues), **Russ** (Thurs), **Sp** (Fri). 16.00–16.15: **E** (Tues), **F** (Mon), **Russ** (Wed), **Sp** (Thurs) – **Actualities:** 17.10(W), 18.10(Sun), 21.20(W).
Rel. R. DDR I: Mon & Wed 22.10 (Sun & Thurs 23.00)–23.10; Tues, Fri, Sat 22.00–23.10.

RADIO BERLIN INTERNATIONAL

kc	m	kc	m	kc	m	kc	m
1430	210.0	7185	41.75	9710	30.90	15240	19.69
1511	198.5	7300	41.10	9715	30.88	15255	19.66
5970	50.25	9560	31.38	9725	30.85	15270	19.65
6050	49.59	9575	31.33	9730	30.83	17740	16.91
6080	49.34	9600	31.25	11765	25.50	17755	16.90
6115	49.06	9615	31.20	11795	25.43	17825	16.83
6160	48.70	9650	31.09	11820	25.38		

EUROPEAN SERVICE: On 6080/6115/7185/7300/9730kc:
English: 17.30–18.00, 20.15–20.45, 22.00–22.30 (exc. 7300kc), 23.00–23.30 (exc. 7300/9730kc) – **French:** 18.30–19.00 (exc. 9730kc), 21.00–21.30, 23.45–00.15 (exc. 7300/9730kc) – **Danish:** 18.00–18.30, 19.15–19.45 (exc. 9730kc) – **Italian:** 15.30–16.00 (only on 6080/9730kc), 21.30–22.00 (exc. 7300kc) – **Swedish:** 17.00–17.30, 19.45–20.15.
DX-Prgr: Sat 17.00, 19.45 – **German:** 16.30–17.00, 19.00–19.15 (exc. 9730kc), 20.45–21.00 – **Spanish:** 22.30–23.00 (exc. 7300kc).
NEAR EAST SERVICE
Arabic: 05.30–06.30 on 9730/11765/15270/17740kc, 11.00–12.30 & 13.30–14.00 on 9730/11765/15270kc, 18.30–20.00 on 9600/9615kc – **English:** 15.30–16.00 on 15270kc – **German:** 14.00–15.00 on 9730/11765/15270kc, 18.00–18.30 on 9600/9615kc – **Music:** 12.30–13.30 on 9730/11765/15270kc.
To No. We. Africa:
Arabic: 13.30–14.00 on 9715kc, 21.15–21.45 on 6050kc – **German:** 14.00–14.30 on 9715kc – **French:** 20.30–21.15 on 6050kc.
AFRICA SCE:
To Ce-Africa: Swahili: 03.00–03.45, 16.45–17.30 on 11795kc, 10.45–11.30 on 17825kc – **English:** 03.45–04.30, 16.00–16.45 on 11795kc, 12.15–13.00 on 17825kc – **French:** 04.30–05.15, 17.30–18.15 on 11795 kc, 11.30–12.15 on 17825kc.
To We. Africa: French: 05.30–06.15 on 9575kc, 14.00–14.45 on 17825 kc, 18.30–19.15, 20.30–21.15 on 11820kc – **English:** 06.15–07.00 on 9575kc, 13.15–14.00 on 17825kc, 19.15–20.00 on 11820kc – **German:** 20.00–20.30 on 11820kc.
To Ea-Africa: Swahili: 10.45–11.30 on 17755kc, 16.45–17.30 on 15240kc – **French:** 15.15–16.00 on 15240kc – **English:** 16.00–16.45 on 15240kc – **German:** 14.45–15.15 on 15240kc.
DX-Prgr: *Mon (fortnightly) in all English tr's.*
SO. EA. ASIA SCE:
English: 07.00–07.30 on 15240kc, 12.00–13.00 on 15240/15255kc, 14.00–15.00 & 15.30–16.00 on 11795kc – **DX-Prgr.** to So. Ea. Asia/Australia/New Zealand/Pacific: Sat about 12.20, 14.20, Sun 07.20. **German:** 11.30–12.00, 13.00–13.30 on 15240kc.
NO. AMERICA SCE:
To East-Coast: English: 01.00–01.30, 02.30–03.00 on 5970/6160kc – **German:** 01.30–02.30, 03.00–03.30 on 5970/6160kc – **Music:** 00.30–01.00 on 6160kc.
To West Coast: English: 03.45–04.15, 04.45–05.15 on 5970/6160kc – **German:** 04.15–04.45 on 5970/6160kc.

O. I. R. T.

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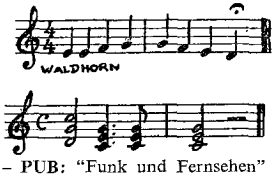
Subscription: The International Radio and Television Organization (O. I. R. T.), U Mrázovky 15, Praha 5, Czechoslovakia.

LATIN AMERICA SCE:
Portuguese: 22.00–23.00, 01.00–02.00 on 9600/9710/9725kc – **Spanish:** 23.00–24.00, 02.00–03.00 on 9600/9710/9725kc – **German:** 00.00–01.00 on 9600/9710/9725kc, 03.00–03.30 on 9600/9710kc.
ANN: E: "This is R. Berlin International the Voice of the German Democratic Republic". F: "*Ici Berlin International, la République* Démocratique Allemande vous parle". (Africa Sce: "Ici R. Berlin International, la Voix de la République Démocratique Allemande"). Swedish: "Här är R. Berlin International, Tyska Demokratiske Republikens sändning på svenska". Danish: "De lytter til R. Berlin International. Den Tyske Demokratiske Republik sender til Danmark". I: "Qui R. Berlino Internationale, la voce della Repubblica Democratica Tedesca". P: "R. Berlin Internacional, a voz da República Democrática Alemana". Sp: "Habla R. Berlin Internacional, la Voz de la República Democrática Alemana".
Foreign Service: Theme from Ludvig van Beethoven's 9th Symphony ("Freude, schöner Götterfunken"):



V. by QSL-card – **PUB:** "Funk und Fernsehen" (weekly) free on request.

RADIO VOLGA (Sovjet Military Administration)
ADDR: Menzelstr 5, Potsdam.
STATION: Königswusterhausen 263kc 1141m 20/150kW.
D.PRGR: D 05.00(Sun 06.00)–22.30 (relay R. Moscow I) – **Special Prgr's for Sovjet Forces in E. Germany:** Sun 09.20–13.00, W 16.00–17.58. **ANN:** "Govorit Volga".

BROADCASTS OF THE SOVIET COMMITTEE FOR CULTURAL RELATIONS with fellowcountry-men in the German Democratic Republic: **ADDR:** Vertretung des Sowjetischen Komitees für kulturelle Beziehungen mit Landsleuten im Ausland, *Behrenstr. 64/65, Berlin W 8, Postal Addr: 108, Berlin 8.* **Te:** 221480 – **L.P:** Pres: J. J. Soldatov. Further details see USSR.

GIBRALTAR (British Colony)

L.T: GMT+1 h – **Pr.L:** English, Spanish.
RADIO GIBRALTAR (Gov, Comm.)
FI: By Gov, adv – **AD:** 4 times daily – **ADDR:** Wellington Front, *Gibraltar. Cable: Broadcasts.* **Te:** 2519.
L.P: Chmn. Gibraltar Broadc. Corpo: C. R. Piccone. Man. Agents: Gibraltar Broadc. Ltd. Chmn: Lord Thomson. Man. Dir: J. M. Coltart. Gen. Mgr: H. J. Ramagge. Chief Eng: T. G. Black,
STATION: Wellington Front 1484kc 202.2m 0.5/1kW.
HOME SCE: English, Spanish: 06.55–23.00. **N: English:** 07.00, 11.00 (exc. Sat), 12.30*, 20.00, 20.15*. **Spanish:** 13.00*, 13.15, 21.30*, 21.35 – **Wrp:** W 08.25, 13.30, Sun 08.30 – *=Local N, other times relay BBC.
ANN: "This is Gibraltar" – **V.** by letter. Re. in English or Spanish. Recorded rep. accepted – **PUB:** Prgr.schedule free on request.

BRITISH FORCES BROADC. SCE. GIBRALTAR
is operated by the Ministry of Defence to provide a service of inf, entertainment as well as a link with home for H.M. Forces stationed in Gibraltar. It is non-comm, does not accept adv – **ADDR:** BFBS, c/o Hqs Royal Signals, Wellington Front, Gibraltar – **L.P:** St. Contr: Lt. Col. J. R. Edgar, MBE. Prgr. Org: Miss M. Hoare.
STATION: 93.5 Mc.
D.PRGR: W 05.45–08.00, 10.15–13.15, 15.00–22.09 (Sat 10.30–22.09). Sun 09.00–22.09. **N:** 06.00, 07.00, 12.00 (Sat 11.45), 13.00, 18.00, 20.00, 22.00 – **ANN:** "This is the British Forces Broadc. Sce. Gibraltar" – **INT-SIG:** "The Waltzing Bugle Boy" (Celeste) – **V.** by QSL-card. **Rp.**

GREAT BRITAIN

L.T: GMT (Su: GMT+1 h) – **Pr.L:** English.
THE BRITISH BROADCASTING CORPORATION
The BBC is an independent body created by a Royal Charter and operated under a Licence and Agreement with the Postmaster-General. **FI:** The revenue for its Domestic Services is drawn from the licence fees paid by listeners and viewers; the revenue for its External Services is provided by a Grant-in-Aid from the Treasury. **PUB:** "Radio Times" "The Listener" (Weekly). "English by Radio and Television" (Fortnightly). "London Calling" (European Edition, Four weekly). "London Calling" (Monthly). "BBC Handbook" (Annually).

ADDR: Broadc. House, London, W.1. **Te:** Langham 4468. **Telex:** 22182. **Cable:** "Broadcasts".
L.P: Board of Management: Dir. Gen: Sir Hugh Greene, K.C.M.G, O.B.E. Dir. of External Broadc: E. Tangye Lean, C.B.E. Chief Asst. to Dir. Gen: O. J. Whitley. Dir. of Adm: J. H. Arkell, C.B.E. Dir. of Engineering: F. C. McLean, C.B.E. Dir. of Sound Broadc: F. G. Gillard, C.B.E. **Deputies, Asst. Dir's and Controllers:** Dep. Dir. of Engineering: M. J. L. Pulling, C.B.E. Asst. Dir. of Engineering: D. B. Weigall. Asst. Dir. of Sound Broadc: R. D. A. Marriott, C.B.E, D.F.C. Contr. Prgr. Organization (Sound): M. F. C. Standing, C.B.E. Chief Pres. (S): H. Rooney Pelletier. Chief of Home Sce: G. E. Mansell. Chief of Light Prgr: D. E. Morris, O.B.E. Chief of Third Prgr: P. H. Newby. Editor, News and Current Affairs: D. I. Edwards, C.B.E. Contr. Music: W. F. Glock, C.B.E. Contr. Educ. Broadc: R. S. Postgate. Chief Engineer Sound Broadc: A. P. Monson. Contr. European Sces: J. Monahan, C.B.E. Controller, Overseas Sces: D. M. Hodson. Contr. Adm. External Broadc: R. W. P. Cockburn. Chief Engineer External Broadc: K. R. Sturley, Ph.D. Head of External Sce's News Dept: K. Fairfax. Secr: C. J. Curran. Legal Adviser: E. C. Robbins, C.B.E. Head of Overseas & Foreign Relations: D. Stephenson, C.B.E. Chief Engineer External Relations: E. L. E. Pawley, O.B.E. Chief Engineer Adm: J. E. F. Voss. Chief Engineer, Communications: G. Stannard.
Regional Controllers: Wales: A. B. Oldfield-Davies, C.B.E. Midland: P. M. Beech. N. Ireland: R. C. McCall, C.M.G. Scotland: A. Stewart, C.B.E. West: S. J. de Lotbinière, C.V.O, O.B.E. North: R. Stead.
HOME SCE: W 06.40–23.45 approx. Sun 07.50–23.45 approx.

		kc	m	kW
Croomer	Northern	692	434	2
Moorside Edge	–	692	434	150
Whitehaven	–	692	434	2
Barrow	–	1484	202	2
Westerglen	Scottish	809	371	100
Burghead	–	–	–	100
Redmoss	–	–	–	5
Dumfries	–	–	–	2
Washford	Welsh	881	341	100
Penmon	–	–	–	8
Towyn	–	–	–	5
Wrexham	–	–	–	2
Brookmans Park	London	908	330	140
Ramsgate	–	1484	202	2
Start Point	West	1052	285	120
Barnstaple	–	–	–	2
Clevedon	–	1457	206	20
Bartley	–	–	–	10
Brighton	–	–	–	2
Folkestone	–	–	–	1
Bexhill	–	–	–	2
Redruth	–	–	–	2
Droitwich	Midland	1088	276	150
Postwick	–	–	–	7.5
Lisnagarvey	N. Ireland	1340	224	100
Londonderry	–	–	–	0.25
Stagshaw	Northern	1151	261	100
Scarborough	–	–	–	2

N: 07.00(W), 08.00, 09.00, 13.00, 18.00, 22.00, 23.00.
Greenwich T.S: 07.00(W), 08.00(D), 09.00, 11.00(W), 13.00, 18.00, 23.00.
LIGHT PRGR: W 05.30–02.00, Sun 06.55–02.00.

	kc	m	kW		kc	m	kW
Droitwich	200	1500	400	Moorside Edge	1214	247	50
Brookmans Park	1214	247	50	Plymouth	–	–	0.5
Burghead	–	–	20	Redmoss	–	–	2
Lisnagarvey	–	–	10	Redruth	–	–	2
Londonderry	–	–	0.25	Newcastle	–	–	2
				Westerglen	–	–	50

N: Mon–Fri 05.30 and every h on the half h until 20.30, 19.00, 22.30, 23.30, 23.55. Sat 05.30 and every h and on the half h until 12.30, 15.30, 17.30, 19.00, 19.30, 20.35, 22.30, 23.30, 23.55. Sun 07.00, 07.30, 08.30, 09.30, 10.30, 19.30, 22.30, 23.55.
Greenwich T.S: 06.45 (200kc only), 09.00(W), 10.00(W), 12.00(Sat only), 14.00, 15.00(Mon–Fri), 19.00(W), 19.30(Sun), 20.30(Mon–Fri).
Opening SIG-TUNE: Oranges and Lemons 06.25(W), 14.00, 15.00 (Mon–Fri).

There are two versions of different durations, used alternately exc. Sun. Also, Harp arpeggio choice of six harp interludes.
THIRD NETWORK:
647kc 464m: Daventry (150kW); Edinburgh, Glasgow, Newcastle, Redmoss (2kW) – **1546kc** 194m: Belfast, Bournemouth, Dundee, Exeter, Stockton (0.25kW); Brighton, Fareham, Leeds, Liverpool, Preston, Plymouth, Redruth, Swansea (1kW).
Music Prgr: Mon–Fri 07.00–18.30, Sat 08.00–12.30, Sun 08.00–17.00.
Study Session: Mon–Fri 18.30–19.30. Sports Sce: Sat only 12.30–18.00.
Third Prgr: Mon–Fri 19.30–23.15, Sat 18.00–23.15, Sun 17.00–23.15.
FM:

Stations	Mc Light	Third Network	Home	Version of H. Sce.	kW/W (ERP)
Ashkirk	89.1	91.3	93.5	Scottish	3/18*
Barnstaple	88.5	90.7	92.9	West	0.02/0.15*
Blaen-plwyf	88.7	90.9	93.1	Welsh	60
Brecon	88.9	91.1	93.3	Welsh	3/10W*
Bressay	88.3	90.5	92.7	Scottish	1.4/9*
Brougher Mountain	88.9	91.1	93.3	N.Ireland	2.5
Cambridge	88.9	91.1	93.3	Midland	8/17W*
Carmarthen	88.5	90.7	92.9	Welsh	2/8W*
Cheltenham/ Gloucester	89.0	91.2	93.4	Midland	0/27W*
Divis	90.1	92.3	94.5	N.Ireland	60
Douglas	88.4	90.6	92.8	North	2.4/5.5*
Forfar	88.3	90.5	92.7	Scottish	2.4/9.6*
Fort William	89.3	91.5	93.7	Scottish	1.5
Grantown	89.8	92.0	94.2	Scottish	0.004/ 0.36*
Haverfordwest	89.3	91.5	93.7	Welsh	0.42/10*
Hereford	89.7	91.9	94.1	Midland	0/0.026*
Holme Moss	89.3	91.5	93.7	North	120
Kinlochleven	89.7	91.9	94.1	Scottish	2W
Kirk o'Shotts	89.9	92.1	94.3	Scottish	120
Larne	89.1	91.3	93.5	N.Ireland	8/16W*
Les Platons	91.1	94.75	97.1	West	0.5/1.4*
Llanddona	89.6	91.8	94.0	Welsh	3/12*
Llandrindod Wells	89.1	91.3	93.5	Welsh	1.3
Llangollen	88.85	91.05	93.25	Welsh	5/11*
Londonderry	88.3	90.55	92.7	N.Ireland	2/13*
Meldrum	88.7	90.9	93.1	Scottish	60
Melvaig	89.1	91.3	93.5	Scottish	1.2/21.7*
Newry	88.6	90.8	93.0	N.Ireland	0/28W*
Northampton	88.9	91.1	93.3	Midland	0/0.06*
North Hessary Tor	88.1	90.3	92.5	West	60
Oban	88.9	91.1	93.3	Scottish	1.5
Okehampton	88.7	90.9	93.1	West	3.3/ 12.5W*
Orkney	89.3	91.5	93.7	Scottish	3/20*
Oxford	89.5	91.7	93.9	Midland	3.2/22*
			95.85	West	
Penifiler (Skye)	89.5	91.7	93.9	Scottish	0/6W*
Perth	89.3	91.5	93.7	Scottish	3/14W*
Peterborough	90.1	92.3	94.5	Midland and East Anglian	1/21*
Pitlochry	89.2	91.4	93.6	Scottish	0.023/0.2*
Pontop Pike	88.5	90.7	92.9	North	60
Redruth	89.7	91.9	94.1	West	1.1/9*
Rosemarkie	89.6	91.8	94.0	Scottish	3/12*
Rowridge	88.5	90.7	92.9	West	60
Sandale	88.1	90.3	94.7	North	120
			92.5	Scottish	
Scarborough	89.9	92.1	94.3	North	26W
Sheffield	89.9	92.1	94.3	North	59W
Skriaig (Skye)	88.5	90.7	92.9	Scottish	1/10W*
Sutton Coldfield	88.3	90.5	92.7	Midland	120
Swingate	90.0	92.4	94.4	London	0.5/6.5*
Tacolneston	89.7	91.9	94.1	Midland & East Anglian	120
Thrumster	90.1	92.3	94.5	Scottish	0.1/10*
Toward	88.5	90.7	92.9	Scottish	0/0.24*
Weardale	89.7	91.9	94.1	North	6/100W*
Wenvoe	89.95	96.8	94.3	Welsh	120
			92.125	West	
Wrotham	89.1	91.3	93.5	London	120

* = Directional Aerial.

EXTERNAL SERVICES

kc	m	kc	m	kc	m	kc	m
3952.5	75.90	6165	48.66	7220	41.55	9610	31.22
3975	75.47	6170	48.62	7230	41.49	9615	31.20
5965	50.28	6180	48.54	7240	41.44	9625	31.17
5975	50.21	6195	48.43	7260	41.32	9635	31.14
5990	50.08	7110	42.19	7280	41.21	9640	31.12
6010	49.92	7120	42.13	7320	40.98	9645	31.10
6035	49.71	7130	42.08	7325	40.96	9650	31.09
6050	49.59	7135	42.05	9410	31.88	9660	31.06
6070	49.42	7140	42.02	9510	31.55	9675	31.01
6080	49.34	7150	41.96	9525	31.50	9690	30.96
6110	49.10	7155	41.92	9530	31.48	9700	30.93
6120	49.02	7185	41.75	9555	31.40	9705	30.91
6125	48.98	7200	41.67	9580	31.32	9710	30.90
6150	48.78	7210	41.61	9600	31.25	9720	30.86

kc	m	kc	m	kc	m	kc	m
9725	30.85	11910	25.19	15375	19.51	21470	13.97
9735	30.82	11920	25.17	15390	19.49	21490	13.96
9740	30.80	11925	25.16	15410	19.47	21530	13.93
9750	30.77	11930	25.15	15420	19.46	21550	13.92
9755	30.75	11945	25.12	15435	19.44	21595	13.89
9760	30.74	11955	25.09	15445	19.42	21600	13.89
9765	30.72	12040	24.92	17695	16.95	21610	13.88
9770	30.71	12095	24.80	17705	16.94	21615	13.88
9825	30.53	15070	19.91	17715	16.93	21630	13.87
9915	30.26	15105	19.86	17730	16.92	21640	13.86
11705	25.63	15110	19.85	17740	16.91	21660	13.85
11710	25.62	15140	19.82	17745	16.91	21675	13.84
11720	25.60	15180	19.76	17755	16.90	21680	13.84
11750	25.53	15190	19.75	17790	16.86	21710	13.82
11770	25.49	15200	19.74	17810	16.84	21740	13.80
11780	25.47	15210	19.72	17860	16.80	25650	11.70
11795	25.43	15230	19.70	17870	16.79	25670	11.66
11800	25.42	15235	19.69	17880	16.78	25720	11.66
11820	25.38	15245	19.68	17885	16.78	25840	11.61
11840	25.34	15260	19.66	17890	16.77	25850	11.60
11860	25.30	15285	19.63	18080	16.59	25920	11.57
11880	25.25	15300	19.61	18150	16.53	26040	11.52
11890	25.23	15310	19.60	21455	13.98	26080	11.50
11905	25.20	15360	19.53				

The above freq's are shared between the European and Overseas Services and in addition the following freq's on Long and Medium Waves are used in the European Services.

200 kc 1500 m 647 kc 464 m 1295 kc 232 m

FM: Berlin 90.2 Mc.

The column below show the wavebands which the BBC expects to use during the months from November to April. Details of wavelengths can be obtained from the programme journals, and are always announced at the microphone.

EUROPEAN SERVICES

		Nov. to April (m.b.)
Albanian		
17.30–18.00	N, Prgr.	25, 19
Bulgarian		
04.45–05.00	N, Prgr.	49, 41, 31, 25, 19
10.30–10.45	N, Prgr.	25, 19, 16, 13
15.30–15.45	E. by R. (Tues, Thurs, Sat)	31, 25, 19
16.45–17.30	N, Prgr.	25, 19, 16
21.15–21.45	N, Prgr.	49, 41, 31, 25, 19, 16
Czech		
05.15–05.30	(Tues, Thurs, Fri, Sun)	1500, 232, 75, 49, 41, 31, 25
14.00–14.15	N, Prgr.	31, 25, 19
14.15–14.45	Sun only	25
19.00–19.45	N, Prgr.	75, 49, 41
22.15–22.30	(Mon, Tues, Wed, Fri, Sat)	49, 41, 31, 25
Slovak		
05.15–05.30	(Mon, Wed, Sat)	1500, 232, 75, 49, 41, 31, 25
11.15–11.30	N, Prgr.	31, 25, 19
16.30–16.45	N, Prgr.	49, 41, 31, 25, 19
20.45–21.00		49, 41, 31, 25
English		
04.00–04.30	N, Prgr.	1500, 49, 41, 31, 25
05.30–05.45	E. by R.	464, 75, 49, 31, 25, 19
05.45–06.00	N, Prgr.	464(Sat, Sun), 232
06.00–06.30	N, Prgr.	464(Sat, Sun), 232, 75, 49, 41, 31 25, 19
06.45–07.00	E. by R.	232, 49, 41, 31, 25, 19
10.15–10.30	Rlg. Sce. (W)	31, 25
12.30–12.45	E. by R.	41, 31, 25, 19, 16
12.45–13.00	E. by R. (Dict)	41, 31, 25, 19, 16
13.00–13.15	N	41, 31, 25, 19, 16
17.00–17.15	E. by R.	232, 49, 41, 31, 25, 19
17.15–18.30	N, Prgr.	232, 49, 41, 31, 25, 19
18.30–18.45	E. by R.	41, 31, 25, 19
19.30–20.00	E. by R.	232, 75, 49, 41, 31, 25, 19
21.00–21.15	N, Prgr.	232, 75, 49, 41, 31, 25
22.30–22.45	N, Prgr.	232, 75, 49, 41, 31
22.45–23.00	E. by R.	232, 75, 49, 41, 31
Finnish		
15.30–16.00	Music (Sun)	41, 31
15.45–16.00	E. by R. (Mon, Wed, Thurs, Sat)	41, 31
16.00–16.45	N, Prgr.	41, 31
18.15–18.30	N, Prgr.	49, 41
French		
05.15–05.30	E. by R.	49, 41, 31
05.30–05.45	N, Prgr.	232, 49, 41, 31
06.30–06.45	N, Prgr.	464, 232, 75, 49, 41, 31, 25, 19
06.45–07.00	E. by R.	31, 25, 19
07.15–07.30	E. by R.	232, 75, 49, 41
French		
11.30–12.15	N, Prgr.	232, 41, 31, 25
12.00–13.30	N, Prgr.	31, 19, 16, 13
13.30–13.45	E. by R.	31
18.30–19.30	N, Prgr.	232, 49, 41, 31, 25, 19
21.30–22.00	N, Prgr.	232, 75, 49
German		
04.30–05.15	N, Prgr.	1500, 232, 75, 49, 41, 31[1]
05.45–06.15	Prgr.	232, 75, 49, 41, 31[1]
11.45–12.00	N, Prgr.	232, 41, 31, 25, 19[1]
12.00–12.15	Rlg. (Sun)	232, 41, 31, 25, 19[1]
16.30–16.45	N, Prgr.	232, 75, 49, 41[1]
16.45–17.00	E. by R.	232, 75, 49, 41[1]
18.30–19.00	Prgr.	75, 49[1]
19.00–20.00	N, Prgr.	232, 75, 49, 31[1]
20.00–21.00	N, Prgr.	232, 75, 49, 31[1]

[1] also 90.2Mc (Berlin).

Greek		
05.00–05.15	N, Prgr.	49, 41, 31
11.45–12.00	P.R.	19, 16
16.00–16.15	E. by R. (Sun, Mon, Wed, Fri)	25, 19
19.00–19.30	N, Prgr.	49, 41, 31
Hebrew		
10.00–10.15	E. by R. (Thurs, Fri)	19, 16
15.00–15.30	N, Prgr.	25, 19, 16
15.30–15.45	Sun only	25, 19, 16
Hungarian		
05.30–05.45	N, Prgr.	49, 41, 31
06.30–06.45	N, Prgr.	75, 49, 41, 31
10.00–10.30	Sun (Music)	25, 19
12.15–12.30	N, Prgr.	31, 25, 19
15.15–15.30	N.	41, 31
15.45–16.00	E. by R. (Mon, Wed, Fri)	49, 41, 31
19.45–20.45	N, Prgr.	49, 41, 31
22.00–22.15	N, Prgr.	75, 49, 41
Italian		
10.00–10.15	E. by R. (Sun)	19, 16
15.30–15.45	E. by R. (W)	41, 31
22.00–22.30	N, Prgr.	232, 75, 49
Polish		
04.15–04.30	N, Prgr.	464, 75, 49, 41
06.15–06.30	N, Prgr.	232, 75, 49, 41, 31
12.00–12.15	E. by R. (Wed, Sat)	41, 31, 25, 19
14.15–14.30	N, Prgr.	41, 31, 25
15.30–16.00	Music (Sun)	31, 25
18.00–19.00	N, Prgr.	75, 49, 41
21.15–22.00	N, Prgr.	232 (until 21.30), 75, 49, 41
Portuguese		
13.30–13.45	N, Prgr.	31, 25, 19
22.00–22.30	N, Prgr.	49, 41
Rumanian		
05.00–05.15	N, Prgr.	49, 41, 31
13.45–14.00	N, P.R.	31, 25, 19
15.30–15.45	E. by R. (Mon, Wed, Fri)	25, 19
16.00–16.15	N, Prgr.	41, 31, 25, 19
19.30–20.30	N, Prgr.	49, 41, 31
21.45–22.00	N, Prgr.	49, 41, 31
Russian		
03.45–04.00	Prgr.	464, 75, 49, 41, 31
11.00–11.15	N, Prgr.	31, 25, 19, 16
14.45–15.30	N, Prgr.	31, 25, 19, 16
15.30–15.45	(Mon, Wed, Thurs, Sat)	Music 41, 31, 25, 19
15.30–16.00	(Tues, Fri) Music	41, 31, 25, 19
16.45–17.00	E. by R.	49, 41, 31, 25
17.00–18.00	N. Prgr.	49, 41, 31, 25
20.00–21.00	N, Prgr.	75, 49, 41
Spanish		
07.30–07.45	E. by R. (Mon, Wed, Thurs, Fri)	49, 41
13.15–13.30	N, P.R.	31, 25, 19
21.15–22.00	N, Prgr.	49, 41
Turkish		
05.15–05.30	N. Talk	49, 41, 31
15.45–16.00	N. P.R.	25, 19
16.00–16.15	E. by R. (Tues, Thurs, Sat)	25, 19
18.30–19.00	N, Prgr.	49, 41, 31
Serbo-Croat		
14.15–14.30	N, Prgr.	25, 19
14.30–14.45	E. by R. (Mon, Wed)	25, 19
14.30–14.45	N, Prgr.(Sun)	25, 19
15.30–16.00	Slovene(Sun)	41, 31
16.15–16.30	N, Prgr.	49, 41, 31
18.00–18.30	Slovene	49, 41, 31
20.30–21.15	N, Prgr.	49, 41, 31

GREENWICH T.S: at the h are radiated on one or other of the European Prgr's on the long, medium or sw. normally scheduled at 04.00, 05.00, 06.00, 11.00, 14.00, 16.00, 17.00, 18.00, 19.00, 21.00, 22.00 – **Big Ben:** 12.00, 19.00, 21.00.
INT-SIG: (for European Service): Morse Signal "V" (V for Victory) played on Timpani (i.e. ...-) –

OVERSEAS SERVICES

BBC WORLD SERVICE
The BBC World Service which operates for 22 3/4 hours a day, (03.00–08.00, 09.15–03.00) and which can be heard at suitable listening times all over the world is addressed to English-speaking listeners wherever they may be. All prgr's are in English. The times at which the BBC World Service is directed to various parts of the world and the appropriate wavebands are:

Australia	Nov–April m.b.	New Zealand	Nov–April m.b.
06.00–08.00	41, 31, 25, 16	06.00–08.00	49, 41, 31, 25
09.15–11.30	19, 16	09.15–11.30	19
20.00–22.30	31	20.00–22.30	31, 25

Japan, No. China, No. We. Pacific:
09.15–11.30 19
So. Ea. Asia, India, Pakistan, Ceylon:
23.00–23.15, 00.00–00.30, 01.45–02.15 } 49, 41, 31 — 09.15–18.15 31, 25, 19, 16, 13
Ea. Africa, Arabia, Cyprus, Egypt, Iraq, Iran, Israel, Jordan, Lebanon, Sudan, Turkey:
03.00–08.00 75, 49, 31, 25, 19 — 09.15–21.15 49, 41, 31, 25, 19, 16, 13
Malta, Greece, Italy, C. Mediterranean, No. Africa:
04.00–08.00 75, 49, 41, 31, 25, 19 — 09.15–22.45 49, 41, 31, 25, 19 16, 13
C. and So. Africa:
04.00–08.00 41, 31, 25, 19, 16 — 09.15–22.45 41, 31, 25, 19, 16, 13
Gibraltar, W. Mediterranean, We. Africa, No. We. Africa:
05.00–08.00 49, 41, 31, 25, 19 — 09.15–22.45 49, 41, 31, 25, 19, 16, 13
Southern Atlantic:
22.00–00.30 31, 41
Canada, USA, Mexico:
21.15–02.45 49, 31
We. Indies, C. America, So. America (No. of Amazon):
11.00–11.15 19
20.00–22.30 49, 31, 25
So. America:
22.45–03.30 49, 31, 25
20.00–03.30 31, 25, 19

N: 00.00, 02.00, 03.00, 04.00, 05.00, 06.00, 07.00, 09.15, 11.00, 13.00, 14.00, 16.00, 18.00, 20.00, 22.00, 23.00 – **N. about Britain:** 00.09, 03.09, 07.20, 13.09, 18.09 – **R. Newsreel:** 00.15, 06.15, 07.45, 14.15, 18.15. **From the Editorials:** 01.50(exc. Sun), 03.30, 05.09, 07.15, 09.30, 14.15. **Greenwich T.S:** 00.00, 02.00, 03.00, 04.00, 05.00, 06.00, 07.00, 09.00, 11.00, 13.00, 14.00, 16.00, 17.00, 18.00, 20.00, 22.00, 23.00.
Big Ben: 14.00(Full Strike).
Short Wave Listeners Corner: Fri 00.30, 09.35.
ANN: "This is the World Service of the BBC" – **INT-SIG:** Bow Bells. The BBC World Service is also rebroadc. by the BBC Far Eastern Station and by the East-Mediterranean-Relay.

PACIFIC SERVICE

Australia/N. Zealand:	Nov–April m.b.
08.00–08.45	41, 31, 25

ASIAN SERVICE

China, Japan:	
11.00–11.30	16, 13
12.00–12.45	25, 16
22.00–22.45	49, 41
So. Ea. Asia:	
10.30–13.00	25, 16, 13
13.15–14.15	31, 25, 19, 16
22.45–24.00	49, 41, 31
India, Pakistan, Ceylon:	
10.00–10.30	16, 13
14.15–15.45	31, 25, 19
Iran:	
16.15–17.00	31, 19, 16

ARABIC SERVICE:

M. East, C. Mediterranean:	
03.45–05.45	49, 41, 31
11.00–21.00	41, 31, 25, 19, 16, 13
Ea. Africa:	
03.45–05.45	49, 41, 31
11.00–21.00	41, 31, 25, 19, 16, 13
No. Africa, Morocco, We. Mediterranean:	
03.45–05.45	49, 41
11.00–21.00	41, 31, 25, 19, 16, 13

SCE. TO EA. AFRICA:

		Nov–April m.b.
03.30–03.45	Swahili	49, 41, 31
10.00–10.15	Swahili	19, 16, 13
10.15–11.00	English	19, 16, 13
14.15–15.00	Urdu	19, 13
14.30–15.00	Somali	19, 13, 16
15.00–15.45	Hindi	19, 16
15.45–16.15	Swahili	31, 19, 16
17.00–17.30	Somali	25, 19

SCE. TO WE. AFRICA:

05.45–06.00	Hausa	49, 41, 31
06.30–07.00	English	31, 25, 19
11.00–12.00	English	19, 16, 13
13.45–14.15	Hausa	19, 16, 13
19.30–19.45	Hausa	31, 25, 19

SCE. TO MAURITIUS:
09.45–10.00 (altern. Mon) in English/French in 16, 13 m.b.
SCE. TO C. AFRICA:
09.45–10.00 English (Tues, Thurs only) 19, 16, 13 m.b.

SCE. TO WEST/EQUATORIAL/NO. AFRICA:

French:	m.b.	French:	m.b.
05.15–05.45	49, 41, 31	12.00–13.30	19, 16, 13
06.30–07.00	31, 25, 19	18.30–19.30	31, 25, 19

SCE. TO MALTA: 16.24–16.30 Maltese 25, 19, 16 m.b.

SCE. TO FALKLAND ISLANDS:
22.15–22.45 (Sun) English 31, 25 m.b.
SCE. TO W. INDIES:
22.30–22.45 (W) English 49, 31, 25 m.b.

NORTH AMERICAN SCE. (Canada, USA, Mexico):
15.30–17.30* 19 m.b. (Summer 14.30–16.30** 19 m.b.) * English exc. 16.55–17.00 (Mon–Fri), 17.15 (Thurs) when French. ** English exc. 15.55–16.00 (Mon–Fri), 16.15 (Thurs) when French.

LATIN AMERICAN SERVICE:
Portuguese to Brazil: 23.00–00.15 in 31, 25 m.b.
C. America, Columbia, Ecuador, Mexico, Peru, Venezuela
Spanish 01.15–03.15 in 49, 31 m.b.
Argentina, Bolivia, Chile, Paraguay, Uruguay:
Spanish 00.15–02.15 in 31, 25 m.b.

V. The BBC welcomes reception reports, which are acknowledged with a special card. Re. to C.E.X.B, Bush House, London W.C.2. Recordings accepted.
Central Mediterranean Relay: see Malta.
East Mediterranean Relay: see Cyprus.
West African Relay: see Liberia.
Middle East Relay: see Aden.
BBC Far Eastern Station: see Singapore.
South Atlantic Relay: see Ascension Island.

BRITISH FORCES BROADCASTING SCE. (Head Office)
Responsible for the operation and control of the service on behalf of the Ministry of Defence. Also produces some 35 hrs. of recorded prgrs a week for tr by BFBS st's in Germany, Cyprus, Tobruk, Benghazi, Malta, Aden, Gibraltar and Singapore (see resp. countries).
ADDR: Kings Bldgs, Dean Stanley St, London S.W.1. **Te:** TATe Gallery 5646 – **L.P:** Dir: B. W. Cave-Browne-Cave, OBE. Contr. Prgr's: I. J. Woolf. Contr. Prgr. Adm: A. E. Watson. Chief Eng: P. I. K. Woodford.

VOICE OF AMERICA RELAYS IN GREAT BRITAIN (BBC)
ADDR: Voice of America, Washington, 25, D.C. USA.
STATIONS: Woofferton 250kW: 02.00–07.30, 14.00–22.00.
D.PRGR: See USA.

MANX RADIO (Comm.)
(Licenced by the G.P.O. on behalf of the Manx Government)
ADDR: P.O. Box 22, Douglas, Isle of Man. **Te:** 3277 – **L.P:** Gen. Mgr: J. R. Grierson – **STATIONS:** 1295kc 232m 0.05kW+89Mc (daylight freq's) – 1594kc 188m 0.05kW+89Mc (darkness freq's).
HOME SCE. in English: 07.00–19.00 – **ANN:** "This is Manx Radio for happy listening on 89.0Mc VHF and also on – – – in the m.w. band".

GREECE

L.T: GMT+2 h – **Pr.L:** Greek.

NATIONAL HELLENIC BROADCASTING INSTITUTE
(Ethnikon Idhryma Radiophonias, Gov. Statutory of Public Law).
FI: By license payments and adv – **ADDR:** Mourouzi Str. 16, Athens 138. **Studios:** Zappeion Bldg, Athens 118. **Te:** 714151. **Cable:** Radiostathens.
L.P: Pres. of the Adm. Council: G. Th. Spyropoulos. Dir. Gen: G. Dafnis. Dir. Tec: V. Aslanides. Dir. Pub. Rel: A. Margaritis.
STATIONS (Systems: Marconi (Nat), Western Electric (2nd prgr), Telefunken (3rd prgr.)).

	kc	m	kW		kc	m	kW
Athens (Nat)	728	412.1	150	Comotini	1403	213.8	5
Athens (2' Prgr)	1385	216.8	50	Volos*	1484	202.2	1
Athens (3' Prgr)	665	451.2	15	Rodos*	1493	201.0	5
Thessaloniki I	791	379.2	50	Patras*	1511	198.5	0.2
–	6095	49.22	35	Chania*	1511	198.5	5
–	9710	30.90	35	Amalias*	1562	192.1	1.25
Thessaloniki II	1043	287.6	5				
Corfu*	1007	298.0	50	* Nat & Reg.			

HOME SCE: Nat. Prgr: W 04.30–08.00, 10.30–13.25, 15.00–23.05. Sun 04.30–23.05. N: W 05.15, 05.50*, 06.15, 07.45, 11.00, 12.30, 16.55, 17.30**, 19.30, 22.00. Sun 05.15, 05.25*, 12.15, 16.55, 17.30**, 19.30, 22.00, 23.00. *=English & French. **=incl. Newsreel – **Wrp:** 05.55, 13.20(W), 17.55 – **Nat. Music:** Mostly at 05.30–07.00, 10.30–10.45, 17.00–17.30 – **Rlg (Orthodox):** Sun 05.30–08.00.

Thessaloniki I: *791kc: 04.55–22.15; 6095kc: 18.00–18.30; 9710kc:* 11.00–13.00. N: 05.10, 16.00, 22.00. **Calling Greeks in Europe:** D 18.00–18.30, Thurs, Sat 21.15–22.15.

Nat. & Reg: Approx. times of tr. as **Nat. Prgr.**

2' Prgr: W 05.00–07.00, 08.00–13.15, 17.00–21.30, Sun 05.00–21.30. (Light prgr's, mainly) – **3' Prgr:** D 17.00–22.00 (serious music only).

ANN (for all mw stations): "Ethnikon Idhryma Radiophonias" (NBI). **Nat. Prgr:** "Ethnikon Proghramma". **2' Prgr:** "Dhéfteron Proghramma". **3' Prgr:** "Triton Proghramma". **Reg. Prgr's:** Name of *Region served as follows:* "Radiophonikos Stathmos Voriou Elladhos" (for Thessaloniki). "R.S. Voriodhytikis Elladhos" (for Corfu). "R.S. Thrakis" (for Comotini). "R.S. Dhodhekanissou" (for Rhodos). "R.S. Kritis" (for Chania). Stations Volos, Patras, Amalias are announced "R.S. Volou, Patron, Amaliadhos" individually.

STATION-SIG: Used by all mw-st's of NBI: "Tsopanakos imouna" (Once I was a shepherd boy), a folk song played on native flute and sheep bells

INT-SIG: "Musical Box" played on vibraphone.

V. by QSL-card or letter. Rp. preferred. Recordings accepted – **PUB:** "Radioproghramma" (weekly in Greek) – **F.PL:** Two 100kW sw-tr's+FM netw.

FOREIGN SERVICE: Athens – 7.5/5kW.

5960 kc	50.34 m	9605 kc	31.20 m	17745 kc	16.90 m
6075 –	49.38 –	11720 –	25.60 –	17780 –	16.87 –
6175 –	48.58 –	11925 –	25.15 –	21485 –	13.96 –
7140 –	42.01 –	15345 –	19.55 –	25645 –	11.69 –
7295 –	41.12 –	15425 –	19.44 –	25965 –	11.55 –

Schedule:

I=Cyprus; II=Egypt; III=Turkey/Balkans; IV=No. Western Europe; V=Mediterranean.

Times	Area	kc	Prgr.
07.00–08.15(W)	I	9605, 11720	N: 07.00
05.50–08.15(Sun)	I	9605, 11720	Rlg (ortodox)
09.00–10.00[1]	II	9605, 11720	N: 09.00 (exc. Mon)
10.30–13.00	I	9605, 11720	N: 11.00, 12.30 (Sun 12.15)
13.30–15.15	III	7295, 9605	
16.30–17.00	I	7295, 9605	
17.30–18.00	IV	11720, 15195	N: 17.30
18.30–19.00	I	7295, 9605	
19.30–21.00	IV	9605, 11720	N: 19.30
22.00–22.30	V	9605, 11720	N: 22.00+shipping
23.00–23.30	V	9605, 11720	N: 23.00+shipping

[1]=exc. Mon – The above freq's are subject to changes.

Prgr's consist mainly of various Nat. Music & N.

ANN: Gr: "Ethnikon Idhryma Radiophonias. Edho Radiophonikos Stathmos Athinon Vracheon Kymaton" – ***INT-SIG:*** see Home Sce – **V.** by QSL-card. Recorded re. preferred.

Wilh. Franz KG, Germany: EMT studio equip.

WSW, Austria: Electronic equip.

FORCES BROADCASTING STATIONS (Greek)

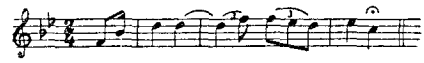
ATHENS (Central)

FI: By adv. only – **ADDR:** Radhiostathmos Enoplon Dhynameon, 136-Messoghion St, Athens. Te: 662929 – **L.P:** Dir. Gen: N. H. Zogas. Dir. Tec: E. S. Tsamoussis. St. Mgr: T. I. Milis.

STATIONS: *1142 kc 262.7 m 20 kW – **1300 kc 230.6 m 5 kW 6045 kc 49.63 m 5 kW.

HOME SCE: W 05.00(Su 04.30)–13.00, 15.00–22.00(Su 23.00). Sun 05.00(Su 04.30)–22.00(Su 23.00) – N: 06.00, 12.00, 19.00, 21.00. * W exc. 07.00–10.00; ** W 07.00–10.00.

ANN: "Edhó Athinai, Kendrikós Radhiophonikós Stathmós Enóplon Dhynámeon Helládhos" (This is Athens, the Central R. St. of the Greek Armed Forces) – **STATION-SIG:** The main motif from the march "Greece never dies" played on trumpets



V. by letter. Recorded rep. accepted.

Stations:	kc	m	kW		kc	m	kW
Florina	1313	228.4	1	Larissa	**5955**	50.38	0.4
Joannina	**7155**	41.92	0.25	Serrae	**7161**	41.90	1
Kavalla	1355	221.3	1	Thessaloniki	1169	256.6	10
Kozani	**7215**	41.58	0.5	Tripolis	**6003**	49.97	0.25
Larissa	944	318.0	5				

D.PRGR: W 04.50–08.00, 10.00–13.00, 15.00–20.00. Sun 04.50–13.00, 15.00–20.00 (Thessaloniki closes at 21.00).

PYRGOS BROADCASTING STATION (Priv.)

(non profit association governed by an adm. council elected by free vote once every year by local subscribers – about 500 – who pay a monthly subscription of 10 drachma).

ADDR: 16 Diakou Str, Pyrgos, Ilias, Western Peloponnesus. Te: 2550. **Cable:** Radio Pyrgos – **L.P:** Dir. Gen: G. Psarros. Dir. Tec: V. Solomos. Head of English Section: G. P. Maniatopoulos.

STATION: 1448kc 207.2m 3kW – **HOME SCE:** 05.00–13.00, 14.00–21.00. N: 05.30, 20.30.

INTERNATIONAL SCE. in English: 00.00–03.00.

"Travelling in Greece – land of sun and blue skies": Wed, Sat 02.20 – **"A letter in the Night"** (Mbg): Thurs 02.20 (fortnightly) – **"View from the 33rd floor":** Sun 02.00.

ANN: Greek: "Edhó Pyrgos radiofonikós stathmós, dhitikis Peloponnissou". English: "This is the P.B.S. in Western Peloponnesus, Hellas" – **V.** by plain cards. Rp. Re. in English. Recordings accepted – **F.PL:** Prgr.schedule, pennants free to overseas listeners.

VOICE OF AMERICA RADIO STATION AT RHODES

ADDR: Voice of America, Washington 25, D.C. USA.

STATIONS: Medium Waves: Rhodes A 1259kc 238m 150kW: 03.00–07.30, 16.00–22.15 – **Short Wave:** Rhodes 50kW: 04.00–07.30, 14.00–22.15 6015kc 49.88m – 7130kc 42.08m.

D.PRGR: 03.00–04.00 **English**, 04.00–06.00 Arabic, 06.00–07.30 **English**, 14.00–16.30 **English**, 16.30–17.00 Turkish, 17.00–17.30 Greek, 17.30–21.30 Arabic, 21.30–22.15 **English**.

ANN: "This is the Voice of America Relay st. at Rhodes" – **INT-SIG:** 20 sec. variations of "Columbia, the Gem of the Ocean" – **V.** by QSL-card.

VOICE OF AMERICA RADIO STATION AT THESSALONIKI

ADDR: Voice of America, Washington 25, D.C. USA.

STATIONS: Medium Wave: Thessaloniki-A 791kc 379.2m 50kW: 04.30–06.30(Sun 10.15), 10.15–13.20, 15.30–22.15 – **Short Wave:** Thessaloniki 35kW: 11.00–13.00, 15.00–22.45

7205 kc 41.64 m 7290 kc 41.15 m 7295 kc 41.12 m

Medium Wave: 04.30–06.30(Sun 10.15), 10.15–13.20, 15.30–17.15, 17.30–19.30, 20.00–22.15, 22.30–23.00.

Relay NBI (Greek-R. Thessaloniki): 04.30–06.30(Sun 10.15), 10.15–13.20, 15.30–17.15, 18.00–18.30, 21.15–22.15.

17.30–18.00 Bulgarian, 18.30–19.00 Rumanian, 19.00–19.30 Serbo-Croat, 20.00–20.30 Albanian, 20.30–21.00 Rumanian, 21.00–21.15 Serbo-Croat, 22.30–23.00 Hungarian.

Short Wave: See USA.

ANN: "This is the Voice of American Relay St. at Thessaloniki" – **INT-SIG:** 20 sec. variations of "Columbia, the Gem of the Ocean. – **V.** by QSL-card.

HOLLAND

L.T: GMT+1 h – **Pr.L:** Dutch.

NEDERLANDSCHE RADIO UNIE

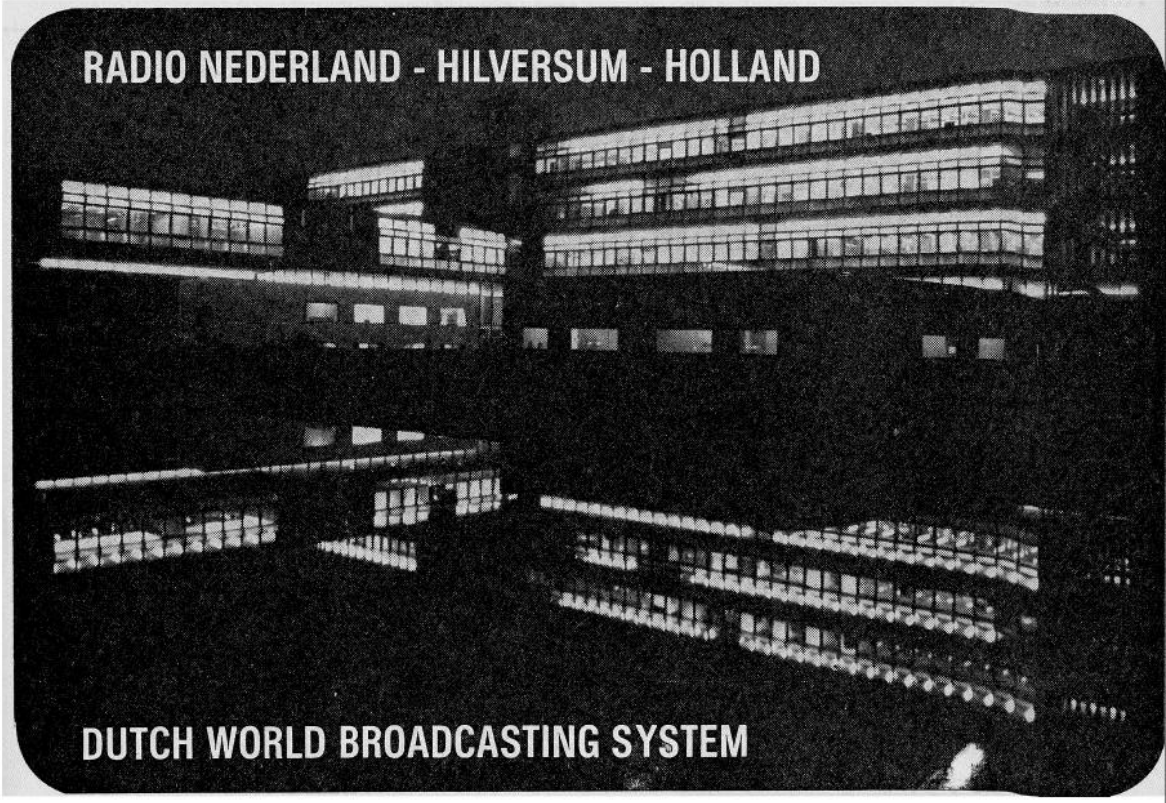
ADDR: P.O. Box 150, Hilversum. **Cable:** Radiounie. **Te:** 48506. **Telex:** 14470 – **HOME SCE:** Provided by the following broadcasting societies:

A.V.R.O: Algemeene Vereniging Radio-Omroep, Head Office Amsterdam, Keizergracht 107. Studios: Hilversum, 's-Gravelandseweg 52. **L.P:** Chmn: Dr. L. H. Slotemaker. Dir. Sound: J. M. van Overvest. Dir. TV: S. van der Zee. Adm. Dir: J. C. Bongenaar.

K.R.O: Katholieke Radio-Omroep: Head-Office: Amsterdam, Keizersgracht 151. Studios: Hilversum, Emmastraat 52 – **L.P:** Chmn: Dr. H. W. van Doorn. Secr: Dr. L. J. N. van der Hulst. Treasurer: Th. Loerakker. Man. Dir: Drs. A. J. J. v. d. Made. Sub. Dir. Radio: J. A. Wagenaar. Sub. Dir. TV: J. J. A. Casteleyns.

N.C.R.V: Nederlandsche Christelijke Radio Vereeniging, Schuttersweg 8, Hilversum – **L.P:** Chmn: Dr. A. B. Roosjen. Secr: G. A. Kieft. Man. Dir. Radio & TV: Dr. A. H. v. d. Veen.

V.A.R.A: Omroepvereeniging VARA, Heuvellaan 33, Hilversum – **L.P:** Chmn: Dr. J. A. W. Burger. Secr-Treasurer: J. Mulder. Prgr. Dir. Radio: J. B. Broeksz. Dir. TV: J. W. Rengelink.



DAILY TRANSMISSIONS in

- DUTCH
- ENGLISH
- SPANISH
- ARABIC
- INDONESIAN
- AFRIKAANS

news, commentaries, actualities, feature-programmes, music

TRANSMITTERS:

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100 kW, 13, 16, 19, 25, 31, 49 metre bands
Bonaire, Neth. Antilles
525 kW, 800 kc/s
260 kW, 19 and 31 metre bands

RELAY SERVICE twice a week

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- Latin American
- and African stations

TRANSCRIPTION SERVICE

for free recordings of

- serious and light music
- entertainment-programmes
- feature spots, coverages
- topical talks, interviews

Write to:

Radio Nederland Wereldomroep

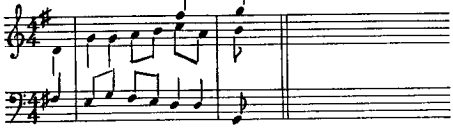
P.O. Box 222, Hilversum, Holland

Holland

V.P.R.O: Vrijzinning Protestantse Radio-Omroep, 's-Gravelandseweg 65, Hilversum – **L.P:** Chmn: Dr. J. A. de Koning. Secr. a.i. Dr. I. J. van Houte. Dir. Radio: Dr. I. J. van Houte. Head Radio: D. Klompsma. Head TV: A. Kleywegt.
Central addr. for Prgr. Publications: Central Bureau voor den Omroep in Nederland, Hilversum. P.O. Box 52 (for Radio & TV).
BOARD OF THE NEDERLANDSCHE RADIO-UNIE:
Chmn: Dr. A. B. Roosjen. Secr: J. Mulder. Treasurer: Dr. L. H. Slotemaker. Members: J. B. Broeksz, J. C. Bongenaar. Dr. H. W. van Doorn, Drs. A. J. J. v. d. Made, J. M. van Overvest. Dr. A. H. v. d. Veen. Dr. A. A. Bakker.
STATIONS: The studios are in Hilversum, but the tr's are located at Lopik (near Utrecht): Lopik I 746kc 402.1m 120kW – Lopik II 1007kc 297.9m 120kW.
Relay stations (I=relay Lopik I, II=relay Lopik II); Hengelo II 1594kc 188.2m 2.5kW – Hulsberg II 1594kc 188.2m 2.5kW – Hoogezand II 1594kc 188.2m 2.5kW.
FM stations (I=relay Lopik I, II=relay Lopik II):

	ch	Mc	kW		ch	Mc	kW
Goes I	3	87.85	12	Markelo I	15	91.4	50
Goes II	27	95.0	12	Markelo II	30	96.2	50
Goes III	43	99.80	12	Markelo III	39	98.40	50
Hulsberg I	17	92.1	4	Roermond I	4	88.2	100
Hulsberg II	28	95.3	4	Roermond II	13	90.9	100
Hulsberg III	39	98.75	4	Roermond III	25	94.50	100
Lopik I	18	92.6	50	Smilde I	16	91.75	50
Lopik II	32	96.8	50	Smilde II	23	94.80	50
Lopik III	40	98.90	50				

D.PRGR: Hilversum I+II: W 06.00–23.00. Sun 07.00–23.00.
N: Hilversum I: W 06.00, 07.00, 10.00, 12.00, 15.00, 17.00, 19.00, 21.30, 22.55. Sun 07.00, 12.00, 16.50, 19.00, 21.30, 22.55. Hilversum II: W 06.30, 07.30, 11.30, 18.00, 21.30, 22.55. Sun 07.00, 08.45, 11.30, 19.00, 21.30, 22.55 – **Agricultural Inf.** (incl. wrp): I+II: 11.27 – **Rlg.Prgr's:** (Sun) 08.00 & 15.00 (I), 16.30 (II).
ANN: "Hier is de AVRO". "Hier is de KRO" etc – V. by QSL folder.
INT-SIG: Three first bars from the National Anthem "Wilhelmus van Nassau"



Regional Broadcasts

REGIONALE OMROEP NOORD EN OOST (RONO)
ADDR: RONO, Prinsenhof, Martinikerhof 23, Groningen.
STATIONS:
Hoogezand 1594kc 188.2m 2.5kW Smilde ch23 94.8Mc 50kW
Hengelo 1594kc 188.2m 2.5kW Markelo ch30 96.2Mc 50kW
D.PRGR: Mon, Wed, Thurs, Fri 17.30–18.30, Tues, Sat 17.30–19.00, Sun 17.30–18.45.

REGIONALE OMROEP ZUID (ROZ)
ADDR: ROZ, Van Hasseltkade 20, Maastricht.
STATIONS:
Hulsberg 1594kc 188.2m 2.5kW – Roermond ch13 90.0Mc 100kW. Hulsberg ch28 95.3Mc 4kW.
D.PRGR: 18.00–19.00.

RADIO NEDERLAND WERELDOMROEP (non-comm.)
FI: By license payments – **ADDR:** R. Nederland, P.O. Box 222, Hilversum. Office: Witte Kruislaan 55, Hilversum. Te: 16151. **Cable:** Mundivox – **L.P:** Dir. Gen: L. F. Tijmstra. Dep. Dir. Gen: C. J. Strop. Dirs: Central Prgr. Sce: J. W. Acda. N. Sce: J. Folkertsma. Internat. Sce: H. J. P. J. van Eijndhoven. Transcription Sce: Lod. Prins. Dir. Tec: V. J. de Grijs. Producer "Happy Station" Prgr: Edw. Startz.
STATIONS: Lopik WO1 50kW; WO2/3/4 100kW; WO5 10kW.

kc	m	kc	m	kc	m	kc	m	kc	m
5980	50.17	9525	31.50	11755	25.52	15160	19.79	17840	16.82
5985	50.13	9560	31.38	11780	25.47	15180	19.76	21480	13.97
6005	49.96	9590	31.28	11800	25.42	15220	19.71	21565	13.91
6020	49.83	9630	31.15	11915	25.18	15425	19.45	21570	13.91
6025	49.79	9715	30.88	11930	25.15	15445	19.42	21625	13.87
6035	49.71	9730	30.83	11935	25.14	17775	16.88	21665	13.85
6085	49.30	9745	30.79	11950	25.10	17800	16.85	21715	13.82
7110	42.19	9755	30.75	11955	25.09	17810	16.84	25610	11.71
7165	41.87	11710	25.62	11960	25.08	17830	16.83	26040	11.52
7210	41.61	11730	25.58	11970	25.06				

RELAYSTATION BONAIRE, Neth. Antilles. Mw 525kW, Sw 260kW. For frequencies: see Bonaire, Neth. Antilles.
OPERATION SCHEDULE: I=So.Africa/Eur; II=Middle East; III=No.Africa; IV=Greater Caribbean Area; V=West-Indies; VI=No.America; VII=New.Zealand; VIII=Australia; IX=Africa/Europe; X=Asia/Australia; XI=M.East/Europe; XII=So.Asia; XIII=So.Asia/Europe; XIV=We.Africa; XV=So.America (South); XVI=So.America (North); XVII=Europe; XVIII=C.America/Mexico; XIX=Spain, No.Africa, Europe; XX=Africa; XXI=So.America, Spain, No.Africa; XXII=So.+Centr.America.

Language	Areas	Nov–May
If other freq's used March/April, these are given in brackets.		
Afrikaans		kc
16.30–17.20 (W)	I	15160, 11730, 6025 (17810, 11730, 6025)
Arabic		
14.30–15.50 (D)	II	15220, 11730
17.30–18.50 (D)	III	9590, 6085
Dutch		
01.10–01.30 (D)	IV	800 B
01.00–01.20 (Sun)	V	9715, 9590, 6085, 6005
02.30–03.50 (D)	VI	9590 B
06.00–07.20 (D)	VII	11730, 9525, 6020
08.30–09.50 (D)	VIII	11970, 9715, 9630
09.00–10.20 (Sun)	IX	17810, 15220, 6025
10.00–11.20 (Sun)	X	21570, 15425
11.30–11.50 (W)	XI	15220, 9630, 6025
11.30–12.50 (D)	XII	15425, 11710
13.00–14.20 (D)	XIII	21570, 15425, 6025
16.30–16.50 (Sun)	V	17810, 15425 (21570, 15425)
17.30–18.50 (D)	IX	11730, 6025 (17810, 15220, 6025)
19.00–19.20 (Sun)	V	11930, 11730 (17810, 15425)
20.30–21.50 (Sun)	VI	9590, 6085 (11730, 9590)
21.00–22.20 (D)	XIV	15220 B
22.00–23.20 (D)	XV	11730, 9590
23.30–23.50 (Sun)	V	9715, 6005
23.30–01.20 (D)	XVI	9590, 6085, 6025
English		
00.20–01.10 (W)	IV	800 B
01.30–02.20 (D)	VI	9590 B
07.30–08.20 (W)	VII/VIII	11970, 11730, 9715
14.30–15.20 (W)	XIII	17810, 15425, 6025
19.00–20.00 (W)	IX	9590, 6025 (11730, 9590, 6025)
20.00–20.50 (W)	XVII	6085, 6025 (9590, 6085, 6025)
20.00–20.50 (D)	XIV	15220 B
20.35–20.50 (*)	VI	11730, 9525 (15425, 11730)
21.00–21.50 (W)	VI	9590, 6085 (11730, 9590)
15.30–15.45 (**)	XIV	21570, 17810
16.00–16.15 (*)	VI	15425, 11730
16.00–16.15 (**)	XIV	17810, 15220 (21570, 17810)
Spanish		
00.30–01.20 (W)	XVI	9715, 6005
04.00–04.50 (D)	XVIII	9590 B
15.30–15.45 (*)	XV	21570, 17810 (21570, 17810)
16.00–16.15 (*)	XVI	17810, 15220 (21570, 17810)
19.45–20.00 (*)	XVI	11930, 11730 (17810, 15425)
20.10–20.25 (*)	XV	11930, 11730 (17810, 15425)
21.30–22.20 (W)	XIX	9560, 6020 (9715, 6085, 6025)
22.30–22.45 (*)	XV	9715, 9560 (11970, 9715)
22.30–23.20 (D)	XV	15220 B
23.30–00.20 (W)	IV	800 B
News in various languages		
16.30–17.20 (W)	V	17810, 15425 (21570, 15425)
19.00–20.05 (W)	V	11930, 11730 (17810, 15425)
21.00–21.20 (W)	V	11730, 9560 (17810, 15425)
23.00–23.15 (W)	V	9715, 6005
23.30–00.05 (W)	V	9715, 6005
01.30–02.00 (W)	V	9715, 6085, 6005, 5980 (9715, 9735, 6085, 6005)
Happy Station (English version)		
06.00–07.20 (Sun)	VII	11730, 9715
07.30–08.50 (Sun)	VIII	11970, 9525
10.30–11.50 (Sun)	XVII	9715, 5980, 6025
14.30–15.50 (Sun)	XIII	17810, 15425, 6025
16.00–17.20 (Sun)	XX	15160, 11730 (17810, 11730)
19.00–20.20 (Sun)	VI	9590, 6085 (11730, 9590)
Happy Station (Spanish version)		
20.30–21.50 (Sun)	XXI	11730, 9560 (15425, 9715, 6025)
22.00–23.20 (Sun)	XXII	9715, 6085, 6025 (11970, 9715, 6025)
Happy Station (English/Spanish version)		
23.30–0110 (Sun)	IV	800 B
Dutch by Radio[1]		
19.30–19.50 (Sun)	XXI	11930, 11730, 6025 (17810, 15425, 6025)
20.00–20.20 (Sun)	XXII	11930, 11730, 6025 (17810, 15425, 6025)

*=Tues and Fri only; **=Wed and Sat only; [1]=broadc. on Wed during Spanish tr's and repeated on Sun as indicated. B=via relay-station Bonaire.

PROGRAMME SCHEDULE

NATIONAL MUSIC: The Amsterdam Concertgebouw Orchestra: In Dutch: Thurs 02.54, 06.24, 08.54, 11.54, 13.24, 17.54, 21.24, 22.54, 23.54 – **Indonesian:** Sun 12.10, 13.25, Wed 12.39, 13.54.

NEWS!
VIEWS!
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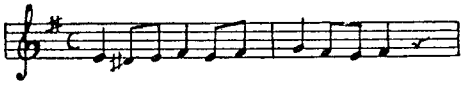
RADIO BUDAPEST, HUNGARY.

see HUNGARY page 122

Other Prgr. of Dutch music: Afrikaans: Mon 16.40. **Arabic:** Wed 15.06, 18.06. **English:** Mon 00.32, 01.42, 07.42, 14.42, 19.12, 20.12, 21.12. **Spanish:** Tues 00.45, 04.15, 22.45, 23.45.
NEWS, COMM: Afrikaans: W 16.30. **Arabic:** D 14.30, 15.30, 17.30, 18.30. **English:** W 00.20, 01.30, 07.30, 14.30, 19.00, 20.00, 21.00. **Indonesian:** D 12.00, 13.15. **Spanish:** W 00.30, 04.00, 21.30, 22.30, 23.30.
LISTENERS REQUEST PRGR: Afrikaans: Sat 16.40. **Arabic:** Fri 14.56, 17.56, Sat 15.35, 18.35. **Dutch:** Tues 02.54, 06.24, 08.54, 11.54, 13.24, 17.54, 21.24, 22.24, 23.54. **English:** Tues 00.32, 01.42, 07.42, 14.42, 19.12, 20.12, 21.12. **Indonesian:** Tues (2nd, 4th, 5th) 12.23, 13.38, Sat 12.22, 13.37. **Spanish:** Mon 00.50, 04.20, 22.50, 23.50, Thurs 21.45.
DX-PROGRAMMES: English: Thurs 07.42, 14.42, 19.42, 20.42, 21.42, Fri 01.42.
MAILBAG: Afrikaans: Sat 16.40. **Arabic:** Sun & Thurs 15.10, 18.10. **Dutch:** Sat 02.50, 06.20, 08.50, 11.50, 13.20, 17.50, 21.20, 22.20, 23.50. **English:** Wed (fortn) 01.50, 07.50, 14.50, 19.20, 20.20, 21.20. **Indonesian:** Sun 12.35, 13.50. **Spanish:** Mon 00.50, 04.20, 22.50, 23.50, Thurs 21.45.
DUTCH BY RADIO: Spanish: (Broadcast on Wed and repeated on Sun) Wed 00.59, 04.29, 21.59, 22.59, Sun 19.30, 20.00.
PRODUCTION "HAPPY STATION": The "Happy Station" Sun prg's, 6 in English and 2 in Spanish & Portuguese on SW. Now Spanish, Portuguese and English on medium wave, for listeners in parts of USA and Latin America. Producer Edward Startz, on the air for more than 35 years, brings a wide range of music for all tastes, short features, descriptive commentaries and educational quizzes. Each tr, carries a mailbag, calling to all parts of the world. The "Happy Station" prgr's Every Sun. (For freq's see operating schedule).
RELAY SERVICE: twice weekly news-behind-the-news prgr. from correspondents in Eur. capitals for stations in U.S., Latin-America and West-Africa.
ANN: Dutch: "Hier is R. Nederland Wereldomroep in Hilversum". E: "This is R. Nederland, the Dutch World Broadcasting System". **Ind:** "Disini Hilversum Siaran Indonesia R. Nederland". **Sp:** "Aqui R. Nederland, Hilversum, Holanda". **Arabic:** "Huna Hilversum – al idha'atu'l hulandiya bi'l-lughati'l-Arabiya". **Afrikaans:** "Dit is R. Nederland Wereldomroep in Hilversum, Holland".
GENERAL INT-SIG: Old Dutch folk song called: "Merk toch hoe sterck", played on carillon or celeste – V. by QSL-card.



PUB: Prgr. schedule in Dutch, English, Spanish, Arabic, Afrikaans, Indonesian – A booklet on Sw. aerial construction in Dutch, English, Spanish, Indonesian and Arabic. A diagram for building a sw-converter in Dutch and English. Some useful hints on sw. reception in English and Spanish. Also in English diagrams for building a BFO, Aerial filter and Crystal calibrator. Monthly frequency predictions. All the pub. are sent free of charge on application.
TRANSCRIPTION SERVICE a free sce. to foreign sts. Issues complete prgr. about Holland and Dutch life both informative and musical, and adapted to suit the requirements of the areas served.

RADIO BLOEMENDAAL (Rlg.)

(Operated by Reformed church of Bloemendaal) – **ADDR:** P.O. Box 26, Bloemendaal – **STATION:** 1223kc 245.3m 0.05kW.
D.PRGR: Sun 08.30–11.00, 14.15–16.00 (Rlgs. services only) – V. by QSL-card.

HUNGARY

L.T: GMT+1 h – **Pr.L:** Hungarian.

MAGYAR RADIO ES TELEVIZIO (Gov.)

ADDR: Brody Sandor-S.U. 5–7, Budapest VIII. **Cable:** Magyarrádió. **Te:** 338-330. Telex: 6-67 – **L.P:** Pres. & Gen. Mgr: I. Tömpe, Vice Pres: Dr. I. Hárs, Dr. K. Kiss. Dir. Adm: G. Mike. Dir. Tec: F. Bley. Dir. For. Rel: Mrs. V. Szaka, dr.

HOME SCE:	kc	m	kW		kc	m	kW
Kossuth, Budapest[1]	539	556.5	135	Szombathely[2]	1340	223.8	25
Petöfi II, Budapest[2]	872	344.0	36	Pécs[2]	1340	223.8	15
Petöfi I, Szolnok[2]	1187	252.7	135	Györ[2]	1349	223.3	0.4
Balatonszabadi	1250	240	135	Szolnok[2]	1349	223.3	0.4
Nyiregyháza[2]	1340	223.8	25	Miskolc[2]	1594	188.2	15
				Magyaróvár[2]	1594	188.2	0.4
				Balatonszabadi[2]	1594	188.2	15

[1] W: 03.30–00.30, Sun: 05.00–00.30 – [2] W: 04.00–07.10, 13.00–22.15, Sun: 05.30–22.15. Reg st's: rel. R Petöfi exc. for reg. prgr's at 18.00–19.00 (Pécs 17.00–20.00, Györ 19.00–20.00, Sun also 09.00–10.00).
R. Kossuth: N, Wrp: W: 03.30, 04.30, 06.00, 09.00, 11.00, 14.00, 16.00, 19.00, 21.00, 23.00. Sun: 05.00, 07.00, 11.00, 16.00, 19.00, 21.00, 23.00.
R. Petöfi: N: W: 05.00, 07.00, 15.00, 17.00, 18.00, 20.00, 22.00. Sun: 22.00. **FM:** Budapest 66.62Mc 2kW – Pécs 69.02Mc, 2kW: 17.00–21.00
German (for Hungarian-Swabians): D 17.30–18.00 on 1340kc (Pécs).
ANN: "Kossuth Radio, Budapest – Petöfi Radio, Budapest".

FOREIGN SERVICE

STATIONS: 15/100/135kW.

kc	m	kc	m	kc	m	kc	m
539	556.5	5902	50.83	7220	41.55	15160	19.79
1187	252.7	6140	48.86	7305	41.07	17795	16.86
1250	240.0	6234	48.10	9540	31.45	17890	16.77
1340	223.8	7105	42.22	9833	30.51	21665	13.85
3995	75.09	7120	42.13	11910	25.19	21685	13.83

	7/11-65–5/3-66(kc)	6/3–30/4-66(kc)
TO EUROPE		
English		
19.30–20.30	3995, 5902, 7105 7305, 17795, 21685	3995, 6234, 7220 7305, 9833, 15160
22.00–22.30	3995, 5902, 6234 7105, 7220, 7305	3995, 6234, 7220 7305, 15160
23.30–24.00	539, 3995, 6234	539, 3995, 6234
German		
18.00–18.30[1]	1250, 6234	1250, 6234
19.45–20.00	1250, 6234, 7220	1250, 6234, 7220
21.30–21.45	1250, 3995, 6234, 7220	1250, 3995, 6234, 7220
22.30–23.00	1187, 1340	1187, 1340, 3995
09.00–10.00*	1250, 3995, 5902 6234, 7105, 7120	1250, 3995, 5902 6234, 7220
13.30–14.00**	1250, 6234, 7120, 7105	1250, 6140, 6234, 7220
13.30–14.00*	9833, 17795, 21685	9833, 15160, 17795, 21685
Greek		
11.45–12.00	6234, 7105, 7120 9833, 17795, 21685	6140, 7220, 9833, 11910 15160, 17795, 21685
17.00–17.30	1250, 3995, 6234, 7105 7220, 7305, 9833, 17795, 21685	1250, 6234, 7120, 7220 9833, 15160, 17795, 21865
19.30–19.45	1250, 6234, 7220	1250, 6234, 7220
20.00–20.15	3995, 5902, 6234, 7105 7220, 7305, 17795, 21685	1250, 3995, 6234 7220, 7305
08.00–08.45*	3995, 6234, 7105 7120, 9833	3995, 6140, 6234 7220, 9833
12.00–13.00*	7105, 7120, 9833 17795, 21685	6140, 7220, 9833, 11910 15160, 17795, 21685
15.00–16.00**	6234, 7105, 7120 9833, 17795, 21685	6140, 7220, 9833, 11910 15160, 17795, 21685
Hungarian		
19.00–19.30	1250, 3995, 5902, 6234 7105, 7220, 7305, 17795 21685	1250, 3995, 6234, 7120 7220, 9833, 15160, 17795 21685
20.30–21.30	1250, 3995, 5902, 6234 7220, 7305	3995, 6234, 7305 7220, 15160
14.00–16.00*	1250, 6234, 7120 9833, 17795, 21685	1250, 6140, 7220, 9833 11910, 15160, 17795, 21685
05.00–05.05a	3995, 6234, 7220, 9833 11910, 17795, 21685	3995, 6234, 7220, 9833 11910, 15160, 17795, 21685
11.00–11.15a	7105, 9833, 11910 15160, 17795, 21685	6140, 7220, 9833, 11910 15160, 17795, 21685
Italian		
11.30–11.45	6234, 7105, 7120 9833, 17795, 21685	6140, 7220, 9833, 11910 15160, 17795, 21685
17.30–18.00	1250, 3995, 5902, 6234 7105, 7220, 7305 17795, 21685	3995, 7220, 9833, 11910 15160, 17795, 21685
20.15–20.30	1250, 6234, 7220	1250, 3995, 6234, 7220
21.45–22.00	3995, 6234, 7220	1250, 3995, 6234, 7220
13.00–13.30*	6234, 7105, 7120 9833, 17795, 21685	6234, 7120, 7220, 9833 15160, 17795, 21685
Spanish		
20.15–20.30	3995, 5902, 7105 7305, 17795, 21685	7305, 9833, 15160
21.30–22.00	5902, 7105, 7305	7305, 9833, 15160
TO NEAR EAST		
Arabic		
16.00–16.30	6234, 7105, 7120, 7220 9833, 17795, 21685	7220, 9833, 11910 15160, 17795, 21685
18.00–18.30	6234, 7105, 7220 9833, 17795, 21685	
14.00–15.00***	7105, 7120, 9833 11910, 17795, 21685	
14.00–15.00**		
Turkish		
16.30–17.00	1250, 6234, 7105, 7220 7305, 9833, 17795, 21685	1250, 6234, 7220, 7305 9833, 15160, 17795, 21685
18.30–19.00	1250, 5902, 6234, 7105 7220, 7305, 17795, 21685	1250, 3995, 6234, 7220 15160, 17795, 21685
10.00–12.00*	7105, 7120, 9833 11910, 17795, 21685	7220, 9833, 11910 15160, 17795, 21685
TO NORTH AMERICA		
English		
00.30–01.00 / 01.30–02.00	6234, 7220, 9540, 9833	6234, 7220, 9540, 9833

03.00–03.30 03.30–04.00(M) 04.30–05.00	6140, 6234, 7220, 9833	6140, 6234, 7220, 9833
Hungarian		
00.00–00.30	6234, 7220, 9540, 9833	6234, 9540, 9833
02.00–03.30 04.00–04.30	6140, 6234, 7220, 9833	6140, 6234, 7220, 9833
TO LATIN AMERICA		
Hungarian		
23.00–23.30b	7105, 7220, 9540, 9833	7305, 9540, 9833, 11910
Spanish		
23.30–24.00b	7105, 9540, 9833	7305, 9540, 9833
01.00–01.30c	6234, 7305, 9540, 9833	6234, 7220, 9540, 9833

*) Sun only; **) Sat only; ***) Fri only; M) Music; a) Home News (rel. R. Kossuth); b) to So. America; c) to Ce. America.
DX-PRGR: In English: Tues 19.30, repeated following Sun 22.00. **In German:** Every 2nd and 4th Sun. 09.00 repeated Mon at 22.30.
ANN: E: "This is Budapest, Hungary" – **INT-SIG:** (see last min information). **V.** by QSLcard. Recordings accepted.

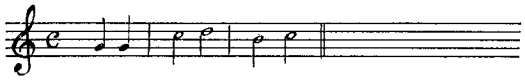
ICELAND

L.T: GMT–1 h (Su.=GMT) – **Pr.L:** Icelandic.
ICELAND STATE BROADCAST SERVICE – RIKISUTVARPID (Gov.)
ADDR: P.O. Box 120, Reykjavik. **Cable:** Utvarp – **L.P:** Dir. Prgr. Council: B. Groendal. Dir. Gen: V. Th. Gislason. Dir. Adm: S. Thordarson. Dir. Prgr: A. Bjoernsson.
HOME SCE: Mon–Fri 08.00–11.00, 13.00–00.30. Sat 08.00–11.00, 13.00–01.00. Sun 09.30–00.30.

STATIONS:	kc	m	kW		kc	m	kW
Reykjavík	209	1435	100	Fáskruds-fjördur	1484	202.2	0.02
Eidar	209	1435	20	Raufarhöfn	1484	202.2	0.02
Höfn	665	451.2	1	Skúlagardur i			
Akureyri	737	407.1	5	Kelduhverfi	1484	202.2	0.02
Alftafjördur	1133	264.8	0.02	Hellissandur	1489	201.4	0.02
Lón	1412	212.4	0.02	Eskifjördur	1510	198.5	0.02
Djúpivogur	1412	212.4	0.02	Tórshöfn	1510	198.5	0.02
Breiddalsvik	1412	212.4	0.02	Kópasker	1510	198.5	0.02
Neskaupstadur	1412	212.4	0.02	Reydarfjördur	1520	197.4	0.02
Húsavík	1412	212.4	0.02	Stödvarfjördur	1545	194.2	0.02
Siglufjördur	1412	212.4	0.02				

FM:	Mc	kW		Mc	kW
Reykjavík	98	0.6	Raufarhöfn	91	0.03
Reykjavík	94	0.03	Skúlagardur i		
Vestmannaeyjar	89.1	0.2	Kelduhverfi	91.5	0.2
Neskaupstadur	91	0.03	Vík	98	0.005

N: W 09.30, 13.30, 16.00, 17.00, 20.30, 23.00. Sun 09.55, 13.30, 20.30, 23.00.
ANN: "Utvarp Reykjavik" – **V.** by QSL-card. Rp.
INT-SIG: Home Service.



The Marconi Company Ltd, GB: 5 kW tr's (Akureyri, Eidar) 20kW tr. (Reykjavík) – Brown, Boveri; Switzerland: 100kW tr. (Reykjavik) – Telefunken AG, Germany: studio equip. (recorders) – Rohde & Schwarz, Germany: FM tr. & antennas.

ARMED FORCES RADIO & TV SERVICE: see USA.

IRELAND

L.T: GMT (Su. GMT+1 h) – **Pr.L:** Irish, English.
RADIO EIREANN/TELEFIS EIREANN (Statutory Corporation)
FI: By state, licence payments and adv – **AD:** 16 h per week.
ADDR: Henry Str, Dublin 1. **Te:** 42981. **Cable:** Broadcasting – **L.P:** Chmn: E. Andrews, Dir. Gen: K. C. McCourt. Head of Adm: J. A. Irvine. Contr. of Prgr's(Radio): R. O. Farachain. Dir. of Engineering: P. G. Parker. Dir. of Pub: J. P. McGuinness. Adv. Sales Mgr: R. K. Gahan.
STATIONS: Athlone 566kc 530m 100kW –
Dublin 1250kc 240m 5kW – Cork 1250kc 240m 5kW.
HOME SCE: W 08.00–10.05, 12.55–15.00, 17.00–23.30. Sun 10.25–11.15, 12.30–23.30.
N: English: 08.00(W), 09.00(W), 10.00(W), 12.55(W), 13.30, 18.30, 22.15. **Irish:** 18.01, 22.00(W) – **Wrp:** English 08.10(W), 09.10(W), 10.25(Sun), 12.55(W), 17.55, 18.30, 22.15, 23.30 – **Irish Music:** Sat, Sun 22.30–23.00.
ANN: "Radio Eireann" – **INT-SIG:** Celeste and Harp playing 4 bars of Irish Air "O'Donnell Abu" – **V.** by letter – **PUB:** R. T. V. Guide.
Tr's: Brown Boveri (Switzerland) – Studio Equipm: EMI, Marconi (G.B.), EMT, Telefunken (Germany). WSW, (Austria).

ITALY

L.T: GMT+1 h (Su: GMT+2 h) – **Pr.L:** Italian.
RAI – RADIOTELEVISIONE ITALIANA
(State Service by public act to RAI).
FI: By license payments and adv – **AD:** 2.9% of broadc. time for radio. For TV: Nat. Prgr: 3.2%. 2nd Prgr: 2.2%.
ADDR: Via del Babuino 9, Roma. **Te:** 6764. **Cable:** Raidirro – **L.P:** Pres: P. Quaroni. Vice Pres: G. Bassani. I. De Feo. Man. Dir: Dr. G. Granzotto. Dir. Gen: Dr. E. Bernabei. Vice Dir. Gen: Dr. M. Bernardi. Dir. For. Rel: Dr. G. Zaffrani. Dir. Adm: Dr. B. Vasari. Dir. Prgr: Maestro G. Razzi. Dir. Radio & TV Inf. Sce's: Dr. L. Beretta. Dir. Tec: Eng. G. Castelnuovo. Co. Dir: Eng. E. Cristofaro. Co. Dir. Gen. Aff: Dr. G. Pozzilli. Dr. A. Passante. Dr. C. A. Grillenzoni. Chief Pers: vacant. Dir. "Radiocorriere": Dr. G. Cane.
HOME SCE: No Powers indicated owing to pending changes.

MEDIUM WAVES	Nat. prgr. kc	2 prgr. kc	3 prgr. kc		Nat. prgr. kc	2 prgr. kc	3 prgr. kc
Aosta 1)	1331	1115		Perugia 9)	1578	1448	
Alessandria 1)		1448		Terni 9)	1578	1484	
Biella 1)		1448		Ancona 10)	1578	1448	
Cueno 1)		1448		Ascoli P. 10)		1448	
Torino 1)	656	1448	1367	Roma 11)	1331	845	1367
Como 2)		1448		Aquila 12)	1578	1484	
Milano 2)	899	1034	1367	Campob. 12)	1578	1448	
Sondrio 2)		1448		Pescara 12)	1331	1034	
Bolzano 3)	656	1484	1594	Teramo 12)		1484	
Bressanone 3)		1484	1594	Avellino 13)		1484	
Brunico 3)		1448	1594	Benevento 13)		1448	
Merano 3)		1448	1594	Napoli 13)	656	1034	1367
Trento 3)	1331	1448	1367	Salerno 13)		1448	
Belluno 4)		1448		Bari 14)	1331	1115	1367
Cortina 4)		1448		Brindisi 14)	1578	1484	
Venezia 4)	656	1034	1367	Foggia 14)	1578	1448	
Verona 4)	1578	1448	1367	Lecce 14)	1578	1448	
Vicenza 4)		1484		Salento 14)	566	1448	
Gorizia 5)	1578	1484		Taranto 14)	1578	1448	
Trieste 5)	818	1115	1594	Matera 15)	1578	1448	
Udine 5)	1331	1448		Potenza 15)	1578	1448	
Trieste A 5)	980			Catanzaro 16)	1578	1448	
(autonome in Slovene)				Cosenza 16)	1578	1448	
Genova 6)	1331	1034	1367	Reggio C 16)	1578		
La Spezia 6)	1578	1448		Agrigento 17)	1578	1448	
Savona 6)		1484		Catania 17)	1331	1448	1367
S. Reno 6)		1034		Caltanis-setta 17)	566	1448	
Bologna 7)	1331	1115	1367	Messina 17)		1115	1367
Arezzo 8)		1484		Palermo 17)	1331	1448	1367
Carrara 8)	1578			Cagliari 18)	1061	1448	1594
Firenze 8)	656	1448	1367	Nuoro 18)	1578	1484	
Livorno 8)	1061		1594	Sassari 18)	1578	1448	1367
Pisa 8)		1115	1367				
Siena 8)		1448	1367				

1) Piemonte, 2) Lombardia, 3) Trentino, Alto Adige, 4) Veneto, 5) Venezia, Giulia, Friuli, 6) Liguria, 7) Emilia, Romagna, 8) Toscana, 9) Umbria, 10) Marche, 11) Lazio, 12) Abruzzi, Molise, 13) Campania, 14) Puglia, 15) Basilicata, 16) Calabria, 17) Sicilia, 18) Sardegna.
FM: 1412 st's in Nat, 2nd, 3rd and 4th prgr.
NATIONAL PRGR: 05.30–22.30.
N, Wrp: 06.00(W), 07.00, 09.00(W), 11.00(W), 12.00, 14.00, 16.00(W), 19.00, 22.00 – **Maritime Wrp:** 05.30, 13.55 – **Rlg. Sce:** Sun 06.40 (Evangelistic), 08.30 (Mass from R. Vaticana) – **L.L:** W 05.35 – **Reg. Sce's:** Mon–Fri 13.00–13.55 on all st's marked 1), 3), 7), 13), 14), 17) (mw & FM st's only).
2nd Prgr: 06.30(Sun 06.00)–21.45.
N: Every h 07.30–21.30 (exc. 11.30, 19.30) – **Prgr. for Tourists** (May–Sept): W 06.30–07.00. N. & Information in French (06.30 rel ORTF), German (06.40 rel WDR), English 06.50 rel BBC or VOA) – **Reg. Sce's:** 11.20(Sun 11.30)–12.00 (mw & FM st's only).
3rd Prgr: 17.30(Sun 15.30)–22.15 (approx.) **N:** 20.00 – **Concert:** 18.30.
Network 3 (cultural prgr's): W 09.00–17.30, Sun 08.30–15.30 (until 16.00 on FM III only, 16.00–17.30 on FM III and mw-st's).
Night Prgr (Notturno dall'Italia): On 845kc. Prgr. details see sw.
Special Reg. Sce's:
R. Naples III (1367kc): **English:** 06.00–07.50 for Tourists.
R. Trieste A (980kc): **Slovene:** W 06.00–07.30, 10.30–13.30, 16.00–22.30 (Sat 10.30–22.30). Sun 07.00–22.30. **N:** 06.15(W), 07.15, 12.15, 13.15, 16.15(W), 19.15, 22.15.
R. Bolzano: German: On 656kc: W 13.45–13.55. On 1594/1448kc: 06.00–07.00(W), 08.30(Sun 07.00)–11.30, 12.00–13.00, 16.00(Sun 15.00)–18.00, 18.15–20.20. **N:** 06.15(W), 11.10, 12.15, 13.45(W), 18.45 – **Ladino:** W 13.20–13.45 on 656/1331kc, Mon 17.30–18.00 on 1594kc.

SHORT WAVES:
Nat. Prgr: Caltanissetta 6060kc 49.50m 25kW – 9515kc 31.53m 5kW: W 05.30–13.00, 13.55–22.30. Sun 05.30–22.30.
2. Prgr: Caltanissetta 7175kc 41.81m 5kW: W 06.30–11.20, 12.00–21.45. Sun 06.00–13.00, 13.30–21.45.
3rd Prgr: Roma 3995kc 75.09m 5kW: 17.30(Sun 15.30)–22.15 (approx)
Night Prgr. (Notturno dall'Italia) on 6060/9515kc: 21.45–05.25. 7 h of music-parade: songs, melodies, opera music, dance music, folklore songs, symphony, operetta and jazz, with short **newsbulletins** in four languages (**Italian & English** each full h, **French & German** every h on the half h). Sun: "Holiday for a Continent" musical divertissement presented in Italian, English, French and German.

FOREIGN SERVICE
ADDR: via del Babuino 9, Roma. **Te:** 6764.
STATIONS (12–31 E, 41–48 N):
Roma (Prato-Smeraldo): 2×100kW+2×60kW tr's – Roma (S. Palomba): 1×50kW+1×5kW tr's – Caltanissetta: 1×25kW+1×5kW tr's. 1) Caltanissetta – 2) Rome – 3) Bari.

	kc	m	kc	m	kc	m	kc	m
1)	556	530.0	5985	50.13	9540	31.45	11905	25.20
2)	845	355.0	6010	49.92	9575	31.33	15150	19.80
3)	1115	269.0	6050	49.59	9630	31.15	15400	19.48
3)	1331	225.4	7215	41.58	9710	30.90	17770	16.88
	5960	50.34	7235	41.47	9730	30.83	17800	16.85
	5990	50.08	7275	41.24	11810	25.40		

EUROPEAN SCE: "Rome Calling Europe".

Albanian kc
13.00–13.30 6010, 7235
Bulgarian
15.20–15.40 6050, 7215, 9630
Czech
13.25–13.45 6050, 7215, 9630
21.15–21.40 5960, 5990, 7275
Danish/Swedish*
16.35–16.50 7275, 9575
English
20.20–20.40[1] 5990, 6050, 7275
21.15–21.35[2] 6050, 7235
[1] to Malta; [2] to Gt. Britain.
Esperanto
16.35–16.50(Sun) 7275, 9575
French
12.35–12.55 7235, 9575
German
16.10–16.30[3] 6010, 7275
16.55–17.15[4] 5990, 6010, 7275
17.20–17.40[5] 5990, 6010, 7275
[3] to Ea. Germany; [4] to Austria; [5] to We. Germany.
Greek
15.20–15.40 6010, 7235
Hungarian
13.35–14.00 6010, 7235
Italian kc
15.45–16.50 6050, 7215, 7235
19.10–19.45 5990, 6050, 7275
Lithuanian
19.50–20.05 5990, 6050, 7275
Polish
14.05–14.25 6050, 7215, 9630
21.40–22.00 5960, 5990, 7275
Portuguese
21.40–22.00 7235, 9575
Rumanian
15.45–16.05 6010, 7275
21.05–21.15 5990, 6050, 7275
Russian
03.30–03.45 5990, 7275, 9630
14.05–14.25 7235, 9710
18.10–18.35 6050, 7235
Serbo Croat
14.30–14.50 6010, 6050, 7215
18.10–18.35 5990, 6010, 7275
Slovak
13.45–14.05 6050, 7215, 9630
22.00–22.25 5960, 5990, 7275
Slovene
14.55–15.15 6010, 6050, 7215
Spanish
17.45–18.05 6010, 7275
Turkish
14.30–14.50 7235, 9630
*) Danish: Tues, Thurs, Sat; Swedish: Mon, Wed, Fri.

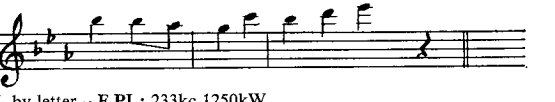
GENERAL OVERSEAS SERVICE
AU, NZ, FAR EAST

English kc
22.05–22.25 6010, 9710
Italian
12.00–12.55 11905, 15400, 17800
20.45–21.10 6050, 7275, 9575
9710, 11905
TO AFRICA
English
20.20–20.40 6050, 7235, 9710
Italian
18.40–19.20 11905, 15150
19.50–20.15 15150, 17770
Somali
19.20–19.45 11905, 15150
TO NEAR EAST
Arabic
13.00–13.20 11905, 15400, 17800
16.55–17.15 6050, 7235
17.20–17.40 6050, 9575
17.45–18.05 7235, 9575, 11905
English
12.00–12.30 9575, 11905
French
14.55–15.15 7215, 9630
TO MEDITERRANEAN
Arabic kc
13.47–13.55 1331, 6060, 9515
Italian
13.40–13.47 1331, 6060, 9515
TO LATIN AMERICA
Italian kc
18.40–19.05 11810, 15400, 17770
01.40–03.05 5960, 6010, 9630
9710, 11810
Portuguese
01.20–01.35 9540, 9710, 11810
Spanish
01.00–01.20 9540, 9710, 11810
03.05–03.25 5960, 6010, 9630
9710, 11810
NO. AMERICA
English kc
01.00–01.20 6010, 9630
French
01.20–01.35 6010, 9630
Italian
22.30–01.00 6010, 9540, 9630
9710, 11810

News in English: 12.00, 20.20, 21.15, 22.05, 01.00.
ANN: "RAI – Radiotelevisione Italiana, Stazioni del (programma Nazionale, Secondo Programma, Terzo Programma)". Night prgr: "RAI – Radiotelevisione Italiana, Stazione di Roma ad onda media kc845 pari a m355 e stazioni ad onda corta de Caltanissetta kc6060 e. 9515 pari rispettivamente a m49.50 a 31.53" – "Notturno dall'Italia". Foreign Sce: I: "RAI-Radiotelevisione Italiana – Stazioni ad onda corta de metri... pari rispettivamente a... megacicli per secondo – Trasmissione in lingua Italiana per..." E: "This is the Italian R. & Television Sce. broadc. from Rome". F: "Ici la R. Italienne" G: "Hier ist der italienische Auslandssendedienst in Rom".
INT-SIG: Bird chirping, opening signal: bells (composition by A. Parelli). **V.** by QSL-card – **PUB:** "Radiocorriere" (Weekly) for Home Sce; Prgr. schedule 3 times a year in E, F, G, I (Foreign Sce.)

LUXEMBOURG

L.T: GMT+1 h – **Pr.L:** Luxembourgian. French.
RADIO LUXEMBOURG (Comm.)
FI: By adv – **ADDR:** Compagnie Luxembourgeoise de Télédiffusion Villa Louvigny, Luxembourg. **Cable:** Radio Luxembourg. **Te:** 25881 – **L.P:** Dir. Gen: M. Felten. Secr. Gen: G. Graas. Dir. Prgr: J. Luc.
STATIONS (System: C.S.F.):
I 233kc 1287m 600kW – 15350kc 19.54m 5kW
II 1439kc 208m 350kW – 6090kc 49.26m 50kW
FM: 92.5Mc 50kW; 97Mc 100kW.
HOME SCE. in Luxembourgian on 92.5Mc: W 11.00–13.00, 17.30–21.00; Sun 09.00–21.00. N: 11.45, 18.00, 18.30. 18.00–19.00 (Mon 19.15) also on 6090kc.
FOREIGN SCE:
On 233/15350kc in French: W 04.40(Sun 05.59)–02.00 – N: 05.10, 06.00, 06.30, 07.00, 07.30, 08.00, 09.00, 10.00, 11.00, 12.00, 13.00, 14.00, 15.00, 16.00, 17.00, 18.00, 20.00, 21.00, 23.00, 24.00, 01.00, 02.00. Sun 07.00, 08.00, 09.00, 10.00, 11.00, 12.00, 13.00, 14.00, 17.00, 18.00, 20.00, 21.00, 23.00, 24.00, 01.00, 02.00.
Rlg. Prgr's (French): Sun 06.00–06.10, 07.30–07.45. Thurs 09.30–10.30.
On 1439/6090kc in Dutch, German, English:
6090kc exc. 18.00–19.15(Mon 19.30) when special prgrs.
Dutch: D 06.30–11.00(Sun 13.00). N: W 06.32, 07.00, 08.00, 08.59, 10.55. (Sun 07.37, 08.57, 11.00) – **German:** 11.00(Sun 13.00)–18.00 also on FM 97Mc – N: W 17.55 – **English:** 18.00–02.00 on 1439kc: 19.15(Mon 19.30)–02.00 also on 6090kc.
International Rlg. Prgr's:
On 1439/6090kc: 04.45 (Tues, Wed, Thurs 04.30)–06.30 (Sun 07.30) in G, F, Dutch, Polish, Russian, Hungarian.
On 6090kc only: D 19.00–19.15 (Mon 19.15–19.30): "Bringing Christ to the Nations" Polish(Tues), Sloven(Wed), Slovak(Thurs), Russian (Fri), German(Sat & Mon).
On 97Mc in German and English:
German: 05.00(Sun 06.00)–11.00, 11.00–18.00 relay 1439kc, 18.00–24.00. – **English:** 00.00–02.00, relay 1439kc.
ANN: F: "Ici R. Luxembourg". E: "This is R. Luxembourg". Dutch: "Hier is R. Luxembourg". G: "Hier ist R. Luxembourg". Luxembourgian: "Hei ass R. Letzeburg".
INT-SIG: Melody played on piano: A Luxembourgian popular song.



V. by letter – **F.PL:** 233kc 1250kW.
Telefunken AG, Germany, delivered studio equip. (recorders) – Siemens & Telefunken AG delivered FM-antennas – Wilhelm Franz KG, Germany, delivered EMT studio equipm.

MALTA (State of)

L.T: GMT+1 h – **Pr.L:** English, Maltese.
MALTA BROADCASTING AUTHORITY an independent Authority, to regulate and supervise sound and television broadc. in Malta with power to prescribe and produce prgr's – **ADDR:** 12, Old Treasury Str, Valletta. **Cable:** Broadcasts. **Te:** Ce 21281 – **L.P:** Chmn: J. A. J. Montarano-Gauci, C.B.E, K.M, LL.D. Chief Executive: J. A. Manduca; Secr: A. J. Ellul.

RADIO MALTA
(Comm, a subsidiary of the Malta Television Service Ltd).
ADDR: P.O. Box 384, Gwardamanga. **Te:** 25051 – **STATIONS** (System: Gates): 1214kc 247m 1kW – **FM:** 89.7Mc 1kW (ERP) – **D.PRGR. in Maltese & English:** Mon–Fri 11.30–12.30, 16.30–22.00; Sat 09.30–17.30, 19.59–23.00; Sun 09.30–17.30, 19.00–22.00. **N (BBC):** 20.00 – **F.PL:** Extension of broadc. times.

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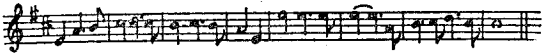
BRITISH FORCES BROADC. SCE. MALTA
is operated by the Ministry of Defence to provide a service of inf, entertainment as well as a link with home for H.M. Forces in Malta. It is non-comm, does not accept adv – **ADDR:** B.F.P.O. 51, Malta – **L.P:** St. Contr: J. V. G. Russell. Eng: R. J. Smith.
STATION: 1425 kc 211 m 1 kW.
D.PRGR'S: 16.30(Sat 14.00, Sun 15.00)–22.00. **N:** 18.00, 22.00(BBC).
ANN: "This is the British Forces Broadc. Sce. in Malta" – **INT-SIG:** "The Waltzing Bugle Boy" (Celeste) – V. by QSL-card. Rp. – **PUB:** "GWIDA" (weekly) by courtesy Rediffusion (Malta) Ltd.

CENTRAL MEDITERRANEAN RELAY (Relays of BBC Arabic Sce.) for Libya/Tunesia: On 1178kc 254.5m 10kW: **Arabic:** 03.45–05.45, 11.00–21.00.

REDIFFUSION MALTA LTD. (Priv. Comm.)
FI: from wired subscribers and adv – **ADDR:** P.O. Box 82, Gwardamanga. **Cable:** Rediffusion. **Te:** Central 25051 – **L.P:** Gen. Mgr: E. A. Hamilton-Hill. O.B.E. Chief Eng: A. J. Bartolo.
D.PRGR: Prgr. I: 06.00–23.00. Mainly BBC (World Sce) with locally produced substitutions – Prgr. II: Maltese: 05.00–22.00. Local prgr's.

MONACO

L.T: GMT+1 h – **Pr.L:** French.
RADIO MONTE CARLO (Comm.)
ADDR: 16, Blvd, Princesse Charlotte, Monte Carlo. **Cable:** Radio Carlo. **Te:** 30-52-52 – **L.P:** Dir. Gen: J. Beliard. Dir. Prgr's: M. Drouet. Dir. N: M. Fontana. Comm. Dir: R. H. Dogor. Chief of Comm. Sce: M. Bosio. Chief of Press Section: Jean Louis Medecin. Dir. Tec: G. Auvray.
STATIONS: 215 kc 1400 m 1250 kW – 1466 kc 205 m 400 kW 6035kc 49.71m 30kW – 7135kc 42.05m 30kW – FM: 93.5Mc 30kW.
HOME SCE: D 05.00–01.00 – **N:** From 06.00 to 18.00 every h on the h. exc. 08.00, 18.30, 21.00, 23.00.
FOREIGN SCE: A 100kW sw-tr. in the 49, 41, 31, 25, 19 m.b. (see Trans World Radio).
ANN: "Ici Monte Carlo" – **INT-SIG:** L'Hymne National Monégasque".

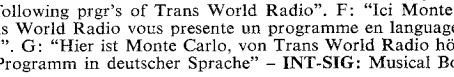


V. by letter – **PUB:** Weekly prgr.sched.

TRANS WORLD RADIO
Dedicated excl. to broadc. the Gospel of our Lord and Saviour, Jesus Christ and is maintained by free will contributions – Trans World Radio's prgr's are aired in conjunction with R. Monte-Carlo.
ADDR: Rue de la Poste 5, P.O. Box 141, Monte Carlo. **Te:** 302233. **Cable:** Votan – **L.P:** Pres: Paul E. Freed Ph.D, Dir. Gen: Ralph Freed D.D. Dir. Radio: B. L. Armstrong, M.A.B.D. Dir. Public Relations: D. Carlson.
STATIONS: 2×100kW.

kc	m	kc	m	kc	m
5960	50.34	7290	41.15	11960	25.08
7260	41.32	9630	31.15		

D.PRGR: Arabic: 13.35–13.50(Fri) on 7290kc, 18.10–18.25(Mon–Fri) on 9630kc – **Armenian:** 18.10–18.25(Sat/Sun) on 9630kc – **Bulgarian:** 14.15–14.45(Sun), 16.15–16.30(Sat) on 7290kc – **Czech:** 15.00–15.15 (Sun/Thurs/Sat) on 7290kc – **Dutch:** 09.00–09.30(Sat) on 7260kc – **English:** 07.30–08.45(D), 07.30–11.15(Sun), 13.00–14.15(Sun), 16.00–17.00(D) on 7260kc – **Estonian:** 17.30–17.45(Sun/Tues/Fri) on 7260 kc – **Finnish:** 16.30–16.45(Tues/Fri) on 9630kc – **French:** 11.45–12.15 (D) on 5960/7290kc – **German(D):** 08.35–08.50, 11.25–11.40 on 7290 kc, 14.30–14.55, 19.30–19.55 on 5960kc – **Greek:** 11.05–11.20(Sun), 13.35–13.50(Wed) on 9630kc – **Hebrew:** 17.50–18.05(D) on 9630kc – **Hungarian:** 14.45–15.00(D) on 7290kc – **Italian:** 12.20–12.35(D) on 5960kc – **Latvian:** 17.30–17.45(Mon/Wed/Thurs/Sat) on 7260kc – **Norwegian:** 18.00–18.30(D) on 7260kc – **Polish:** 16.00–16.15(Mon/Tues/Wed/Fri) on 7290kc – **Portuguese:** 17.00–17.15(Sun) on 9630kc – **Rumanian:** 13.45–14.15(Sun), 15.00–15.30(Wed) on 7290kc – **Russian:** 08.00–08.30(Sun), 15.20–15.55(D) on 11960kc, 17.15–17.30(Mon/Wed/Fri) on 9630kc – **Spanish:** 13.00–13.30(D) on 7290kc – **Ukrainian:** 15.05–15.20(Sun/Fri/Sat) on 11960kc – **Yugoslavian:** 13.30–13.45(Sun), 14.30–14.45(Wed) on 7290kc.
ANN: E: "This is Monte Carlo" or "You are listening to Monte Carlo" – "We invite our listeners in the British Isles to stay tuned for the following prgr's of Trans World Radio". F: "Ici Monte Carlo. Trans World Radio vous presente un programme en language Française". G: "Hier ist Monte Carlo, von Trans World Radio hören Sie ein Programm in deutscher Sprache" – **INT-SIG:** Musical Box.



V. by QSL-card. Recordings accepted.

NORWAY

L.T: GMT+1 h – **Pr.L:** Norwegian.
NORSK RIKSKRINGKASTING (Gov.)
A non-comm. enterprise operated by an indep. State organization. **FI:** By license payments – **ADDR:** Bj. Bjørnsons Plass 1, Oslo. **Te:** 463820. **Cable:** Studio. **Telex:** 1023.
L.P: Radio and Television: Dir. Gen. Dr. Hans Jacob Ustvedt. Dir. Adm: O. Granlund. Chief Secr: B. Kragem. Dir. Personnel: O. Svanevik. Editor "Programbladet": E. Strand. Press & Inf. Officer: A. O. Andersen – **Radio:** Dir. Prgr: T. Elster. Dir. Tec: E. Julsrud. Prgr. Editors: A. Klæbo, K. C. Lyche, H. Kiran, H. Hegtun, L. Rustad, H. Heiberg. K. Lange. Shortwave Dept: E. Thokle – **Television:** Dir. Prgr: O. Nes. Dir. Tec: T. Navelsaker. Prgr. Editors: J. Frydenlund, T. Berg, A. Okkenhaug, E. Diesen, A. Brinchmann, L. Johnson, O. Foss.

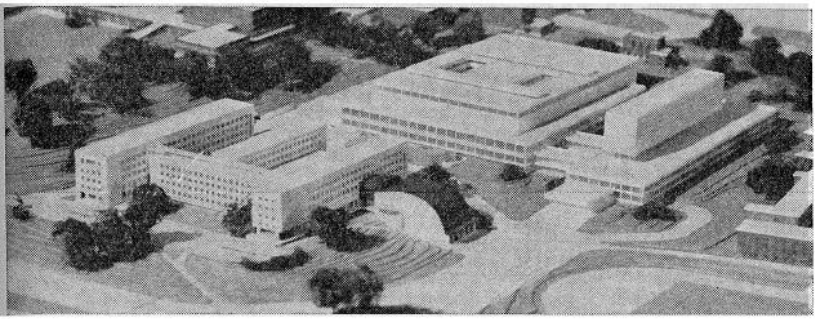
Long and Medium Waves:

	kc	m	kW		kc	m	kW
Tromsø	155	1934	10	Namsos	1115	269	1
Oslo	218	1376	200	Notodden	1115	269	0.25
Sulitjelma	511	587	0.25	Odda	1115	269	0.25
Røros	520	577	0.25	Stavanger	1313	228	100
Vigra	629	477	100	Geilo	1466	205	0.25
Bodø	674	445	10	Kautokeino	1466	205	1
Finnmark	701	428	20	Narvik	1466	205	1
Bergen I	890	337	20	Porsgrunn	1466	205	0.25
Kristiansand	890	337	20	Sandnessjøen	1466	205	0.25
Trøndelag	890	337	20	Svalbard	1466	205	1
Alta	1115	269	0.25	Brønnøysund	1484	202	0.25
Arendal	1115	269	0.25	Glomfjord	1484	202	0.25
Bergen II	1115	269	1	Karasjok	1484	202	1
Bø i Vesterålen	1115	269	1	Mosjøen	1484	202	0.25
Lista	1115	269	0.25	Rjukan	1484	202	0.25
Mo i Rana	1115	269	0.04	Fredrikstad	1578	190	10
				Nordkapp	1578	190	1.3

FM	Mc	kW/W		Mc	kW/W
Alta	89.7	0.6	Lyngdal	97.6	12
Berkåk	87.6	30W	Mehamn	96.1	50W
Berlevåg	95.8	20W	Melhus	92.4	60
Bjerkreim	94.2	60	Meråker	89.8	40W
Bokn	93.5	100	Narvik	88.8	15
Bremanger	93.6	15	Nordfjordeid	89.4	15
Bromma	98.5	72W	Nordheimsund	90.1	40W
Børve	87.6	20W	Odda	90.0	10W
Båtsfjord	98.7	20W	Oslo	88.65	50
Dalekvam	96.9	40W	Otta	94.0	50W
Fauske	97.6	1.3	Ramsøy	95.9	3.2
Flå	96.9	27W	Reinsfjell	89.1	30
Førde	92.8	15	Rennebu I	90.1	15W
Geilo	93.3	0.5	Rjukan	95.0	25W
Geiranger	93.6	8W	Sauda	90.9	10W
Gjøra	99.9	35W	Skafså	95.1	10W
Gol	87.9	0.5	Skien	93.7	25W
Greipstad	88.8	11	Sogndal	91.5	30
Grong	91.9	15	Steigen	90.3	15
Gulen	88.0	15	Steinkjer	90.9	12
Hadsel	92.4	15	Stord	96.0	60
Hammerfest	96.6	30	Stryn	87.6	0.5
Hasvik	90.3	3	Sunndalsøra	96.8	50W
Hattfjelldal	96.0	30W	Tana	92.5	30
Hellesylt	97.5	15W	Tonstad	89.8	14W
Hemnes	88.5	15	Trolltind	88.2	9
Hestmannen	97.0	2	Tron	98.3	30
Hol	95.0	0.8	Tydal	89.0	60W
Hovdefjell	87.8	25	Utne	98.4	1.1
Høyanger	96.8	10W	Valldal	98.5	0.15
Jetta	95.9	15	Varanger	91.8	30
Kistefjell	91.8	1.8	Vega	89.3	25
Kjeldeknatten	91.7	1.1	Velfjord	95.8	0.3
Kjøllefjord	94.9	30W	Vinstra	92.7	0.13
Kongsberg	91.3	60	Voss	93.3	60
Kyrkseterøra	99.9	27W	Ålen I	96.2	15W
Lakselv	99.6	1.3	Ålen II	91.4	15W
Lesja	93.5	4	Åndalsnes	96.0	0.15
Lom	94.9	50W	Årdal	97.1	10W

Power Line Distribution: Bygland 290kc 0.25kW, Langerak 300kc 0.5W, Oppdal 290kc 1W, Røldal 285kc 1W, Sand 300kc 1W, Tonstad 290kc 2W, Åndalsnes 300kc 0.25W, Årøy 300kc 0.6W, Åseral 300kc 2W, Sulitjelma 511kc 0.25W.

HOME SCE: W 05.40–09.25, 10.20–13.30, 15.00–22.20. Sun 06.30–14.00, 15.00–22.20. **N:** 05.40(W), 07.00(W), 08.00(Sun), 12.10, 15.05, 17.35, 21.10 – **Wrp:** 05.40(W), 07.00(W), 08.00(Sun), 12.00, 17.30, 21.00 – **Folklore Music:** Sun 16.30 – **Rlg:** Sun 10.00, Thurs 17.00, W 07.15 – **L.L: English:** Wed 21.30, Thurs 09.00 (for beg.) **German:**



Model of the existing Broadcasting House (in the foreground) and the new Television House, now under construction (in the background)

NORSK RIKSKRINGKASTING

(THE NORWEGIAN BROADCASTING CORPORATION)

Wed 16.35. **French:** Thurs 16.35. **Bergen Local:** Sun 15.00–16.30, W 14.15–17.00 (337m, Voss FM, Odda 269m, Årøy 1000m).
Samisk from Tromsø (1935m) and Vadsø: Mon, Wed 13.50, Tues 13.25, Thurs, Sat 13.40. **Reg. Prgr's** (over all tr's): W 13.00–13.30.
ANN: "Dette er Norsk Rikskringkasting". In Samisk: "Dát læ Norga Riikarádio, Tromsas. Dii gullabettet Samigiel prográmma".
INT-SIG:

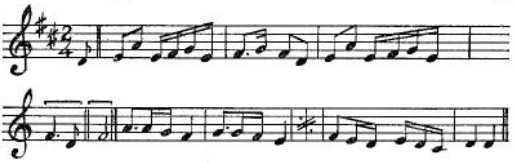
FOREIGN SERVICE
Tr's: Fredrikstad 120kW(2), 100kW(1), 10kW(2), 5kW(1)*.
Freq's that may be used during the year: * to be increased to 10kW.

Call	kc	m	Call	kc	m	Call	kc	m
LKF	1578	190.1	LLH	9645	31.10	LKW	17755	16.90
LKJ	6130	48.94	LKQ	11735	25.56	LLN	17825	16.83
LLI	6185	48.50	LLK	11850	25.32	LLP	21670	13.85
LLR	7240	41.44	LKV	15170	19.78	LLQ	21730	13.81
LLD	9550	31.41	LLM	15175	19.77	LLA	25900	11.58
LLG	9610	31.22						

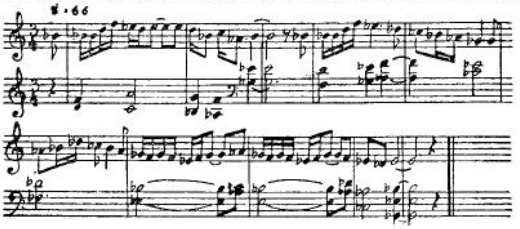
Abbreviations: I=M. East/New Foundland/USA(West)/Ce. America; II=Pacific/F. East/NZ/Indonesia/We. Australia/Ea. Africa; III=F. East/Ea. Australia/NZ/So. America/We. & So. Africa/We. Europe; IV=M. East/India/Indonesia/We. Australia/USA(East) Ce. & So. America/We. Europe; V=We. Europe/New Foundland/USA/Ce. America; VI=Scandinavia/Pacific/Africa; VII=We. Europe/Africa VIII=No. Africa/New Foundland/So. America; IX=We. & So. Africa/So. America/New Foundland.
Beams: a) 110/290/330° – b) 5/45/95/150/330° – c) 45/185/225° – d) 95/110/225/275° – e) 225/275/330° – f) 5/150/185° – g) 150/185/225° – h) 185/225/290°. *) relay Home Sce.

Times	Beam	Area	kc
03.00–04.30	a	I	**6185, 7240, 9610,** 1578
07.45–08.15	b	II	7240, 9610, **15175, 17825,** 21730
11.00–12.30	c	III	7240, **9610, 15175, 17825,** 21730, 25900
13.00–14.30	d	IV	9610, **11850, 15175, 17825,** 21730, 25900
15.00–16.30	e	V	9610, **11850, 15175, 17825,** 21730
17.00–18.30	f	VI	7240, **9610, 11850, 15175**
19.00–20.30	g	VII	6185, **7240, 9610, 11850**
*21.00–22.30	h	VIII	6185, **7240, 9610, 11850**
23.00–00.30	h	IX	**6185, 9610, 11850,** 1578

Tromsö sw-tr (10kW) carries the Home Sce. prgr's on 6130kc (beam 280°).
For schedule March/April: sce last min. information.
The freq's in heavy figures are two tr's of 120kW and one of 100kW; the others are two of 10 and one of 5kW (the 5kW tr. will shortly be increased to 10kW).
N. in Norwegian at the beginning of each tr. **N. in English:** Sun 12.00, 14.00, 16.00, 18.00, 20.00, Mon 00.00, 04.00.
Prgr's in Spanish: Every Fri/Sat at approx 12.20, 14.20, 16.20, 18.20, 20.20, 00.20, 04.20 mainly intended for Spanish seamen onboard Norw. ships.
Prgr. for Norwegians abroad: Sun: Rel. Sce, Sport, L.N. – Mon: Sport N, Parliament N – Tues: Topicalities L.N. – Wed: Request Prgr. (music), L.N. – Thurs: World N, L.N. – Fri: Missionary, Shipping N, L.N. – Sat: Request prgr, L.N.
ANN: "This is Radio Norway with its shortwave service for Norwegians abroad".
INT-SIG: Every s.w. transmission is introduced by the following theme, which originates from an ancient folk tune from Hallingdal.



Five minutes previous to every s.w. tr. the following signal is sent:



Prgr's in English: Every Sun at 12.00, 14.00, 16.00, 18.00, 20.00, Mon 00.00, 04.00. Tr's include news, music, interviews, and feature prgr's. We are grateful for comments on our transmission. Reports are answered by QSL-card. Return postage is not necessary. Our postal address is: **Radio Norway**, Oslo, Norway.
PUB: Programbladet (weekly), Prgr.schedule free on request.
The Marconi Company Ltd. G. B. delivered: Oslo 2×100kW, 1×2 kW, 1×1¼kW. Stavanger 11×5kW, 5×900W, 1×10W tr's.
AKG, Austria, delivered studio equip. (microphones).
Telefunken AG, Germany: studio equip. (recorders).
Wilh. Franz KG, Germany: EMT studio equip.

TELEVISION

NORSK RIKSKRINGKASTING (Gov.)
I: By license payments – **ADDR:** Bj. Björnsons Plass 1, Oslo. **Telex:** 1794 – **L.P:** Dir. Gen: Dr. H. J. Ustvedt. Dep. Dir: Adm: O. Granlund. Dep. Dir. Tec: T. Navelsaker. Dep. Dir. Prgr: O. Nes.

STATIONS:	ch	kW(ERP)		ch	kW(ERP)
Greipstad	2	15	Reinsfjell	6	60
Gulen	2	8	Hovdefjell	7	30
Melhus	2	100	Salten	7	12
Gamlemsveten	3	30	Bokn	8	100
Hemnes	3	6	Bergen	9	140
Bremanger	4	30	Tron	9	30
Kongsberg	4	100	Lillehammer	10	1
Nordhue	5	60	Voss	11	0.5
Oslo	6	100			

+44 low power relay st's less 0.5kW not mentioned.
D.Prgr: W 07.30–15.00 (exc. Tues). Prgr's: Mon–Fri 19.00–21.00, Sat/Sun 18.00–22.00.

NOREA RADIO (Nordic Radio Evangelistic Association)
FI: By gifts from listeners and friends – **ADDR:** Grensen 19, Oslo. **Te:** 417640. **Cable:** Norskluth – **L.P:** Dir. Adm. & Prgr: A. Nevland. Dir. Tec: E. Svanes – **D.Prgr:** Norwegian 17.00–17.30 on 7260, 9620 or 9665kc(100kW) over R. Monte-Carlo – **V.** by QSL-card or letter.

UKE-SENDEREN
is operated by Students of the Technical University of Trondheim all odd-numbered years, and by students of the University of Oslo all even-numbered years.
L.P: different persons each years.
STATIONS: Depend on issuing authorities (Telegrafstyret) –
D.PRGR'S: Depend on issuing authorities (NRK).

POLAND (People's Rep. of)

L.T: GMT+1 h – **Pr.L:** Polish.
POLSKIE RADIO I TELEWIZJA (Gov.)
FI: By license payments – **AD:** 7% of broadc. time – **ADDR:** Komitet do Spraw Radio i Telewizji "Polskie Radio i Telewizja" ul. Noakowskiego 20, Warsaw. **Te:** 2106. **Cable:** "Polskieradio".
L.P: Pres: W. Sokorski. Vice Pres, Home Sce: H. Werner. Vice Pres, Foreign Sce: E. Uzdanski. Vice Pres, Engineering: K. Kozlowski. Dir. Prgr: Home Sce: S. Stampfl. Dir. Prgr. Foreign Sce: H. Meller. Vice Pres. for TV: St. Stefanski. Dir. Adm: A. Landau. Secr. Gen: H. Cendrowski. Dir. Music: R. Jasinski. Dir. Tec: B. Klimaszewski. Head Intern. Relations Office: Dr. S. Mikulicz.

HOME SCE:	kc	m	kW		kc	m	kW
Warszawa I	227	1322	500	Lublin	1367	219.8	60
Poznan	737	407	300	Lódz	1484	202.2	8
Warszawa II	818	367	300	Kielce	1484	202.2	1
Katowice	1079	278	60	Olsztyn	1484	202.2	1
Krakow	1205	249	60	Zakopane	1484	202.2	2
Rzescow	1205	249	60	Szczecinek	1484	202.2	2
Wroclaw	1259	238.5	50	Slupsk	1484	202.2	2
Zielona Gora	1259	238.5	30	Jelenia Góra	1484	202.2	1
Gdansk	1304	230	30	Opole	1594	188.2	1
Szczecin	1304	230	160	Koszalin	1594	188.2	1
Bialystok	1367	219.8	60	Gizycko	1594	188.2	1
Lódz II	1367	219.8	50				

FM:

Name	Mc	kW	Prgr.	Name	Mc	kW	Prgr.
Bydgoszcz	71.0	5	I	Opole	95.0	3	I+III
	68.9	5	II		66.7	5	II
Gdansk	70.3	5	I+III	Poznan	69.7	5	I+III
Katowice	89.8	3	I+III	Rzeszów	68.2	5	I
	69.5	5	I+III	Warszawa	97.6	9	I+III
	68.3	5	II		69.2	5	I+III
Kraków	68.7	5	I		67.9	2	II
	86.1	5	II	Ziel. Góra	69.1	5	I+III
Lublin	72.4	5	I+III	Zgorzelec	68.2	0.3	II
Olsztyn	69.5	5	II				

Prgr. I 227kc: W 03.57–22.10(Sat 22.40). Sun 04.30–23.40.
N: 04.00(W), 05.00, 06.00, 07.00, 08.00(Sun), 11.04, 14.00, 16.00, 19.00, 22.00 – **Folk Music:** W 11.45–12.00 – **Chopin Concert:** Wed 20.00–20.30 – **The Polish Radio Symphony Orchestra (WOSPR) Concert:** Mon 20.00–22.00 – **L.L: English:** Mon, Thurs 17.30. **French:** Wed, Sat 17.30. **Russian:** Tues, Fri 17.30.

Prgr. II On 818kc and all mw st's: W 04.25–23.00(Sat 01.00). Sun 05.00–23.00.
N: 04.30(W), 05.30, 06.30, 07.30, 11.04, 15.00(W), 16.00(Sun), 20.00, 22.50 – **Chopin Concert:** Sun 15.30–16.00 – **National Philharmonic Concerts:** Fri 18.30 – **Symphonic Concert:** Sun 11.10 – **L.L: English:** Tues, Fri 08.45. **French:** Thurs, Sun 08.45. **Russian:** Wed, Sat 08.45.
Prgr. III: D 18.30–22.00.

FOREIGN SERVICE: 227kc 500kW, 737kc 300kW, 1079kc 60kW, 1304kc 160kW, 1502kc 500kW. Shortwaves: 5/100kW.

kc	m	kc	m	kc	m	kc	m
227	1322	5950	50.42	7270	41.27	11840	25.34
737	407	6005	49.96	7285	41.18	15120	19.84
1079	278.0	6135	48.90	9525	31.50		
1304	230.0	7125	42.11	9540	31.45		
1502	199.7	7145	41.99	9675	31.01		

18/10 65–17/4 66

TO EUROPE

Danish	kc
16.30–17.00	6135, 7125
20.30–21.00	6135, 7125, 9540 1502
English	
18.30–19.00	6135, 7125
19.30–20.00	6135, 7125
20.30–21.00	5950, 7145
21.30–22.00	6135, 7125
22.30–23.00	5950, 9540, 1502
23.03–23.30	227
Finnish	
16.00–16.30	6135, 7125
19.00–19.30	6135, 7125
French	
11.00–11.15	7270, 9525, 9540 9675
16.30–17.00	6005, 7285
17.30–18.00	6005, 7285, 9540 1502
20.00–20.30	5950, 7145
21.30–22.00	5950, 7145
22.00–22.30	5950, 9540, 1502
German	
11.30–12.00	6135, 7125, 7145 1502
17.00–17.30 } 18.30–19.00 }	5950, 7145, 9540 1502
19.30–20.00	5950, 7145
21.00–21.30	5950, 7145
Italian	
11.15–11.45	7270, 9525, 9540 9675
17.00–17.30	6135, 7125
18.00–18.30	6005, 7285, 9540 1502
20.00–20.30	6005, 7285
21.00–21.30	6005, 6135, 7125 7285, 9540, 1502
Polish	
06.00–06.30	6135, 7125 7145, 9525, 1502
06.30–07.00	6135, 7145, 9525 9675
12.30–13.00	7270, 9540, 9675
15.00–15.30	5950, 6005, 6135 7125, 7145, 7285 9540, 1502
16.00–16.30	5950, 7145
16.30–17.00	5950, 7145, 9540 1502
17.30–18.00	5950, 7145
Polish	
18.00–18.30	6135, 7125
19.00–19.30	5950, 7145
23.30–00.00	227, 737, 1079, 1304
Spanish	
17.00–17.30	6005, 7285
20.30–20.57	6005, 7285
23.00–23.30	5950, 7125, 1502
Swedish	
17.30–18.00	6135, 7125
20.00–20.30	6135, 7125
21.30–22.00	9540, 1502
Esperanto	
15.30–16.00	5950, 6005, 6135 7125, 7145, 7285 9540, 1502
Concerts	
06.30–07.00	7125, 1502
12.30–14.00	7285, 1502
16.00–16.30*	9540, 1502
19.00–20.30	9540, 1502
23.30–01.00	5950, 7125, 1502

* *Chopin Concert.*

TO AUSTRALIA AND NEW ZEALAND

English	kc
07.30–08.00	9675, 11840, 15120
08.30–09.00	9675, 11840, 15120
Polish	
07.00–07.30	9675, 11840, 15120
08.00–08.30	9675, 11840, 15120

TO AFRICA

English	kc
12.00–12.30	7125, 11840, 15120
13.00–13.30	7125, 11840, 15120
19.00–19.30	6005, 7285
22.00–22.30	6005, 7125, 7145 7285, 11840
French	
12.30–13.00	7125, 11840, 15120
13.30–14.00	7125, 11840, 15120
18.30–19.00	6005, 7285
22.30–23.00	6005, 7125, 7145 7285, 11840

TO SOUTH AMERICA

Polish	kc
23.00–23.30	9675, 11840, 15120
23.30–24.00	9675, 11840, 15120
00.30–01.00	9675, 11840, 15120
01.00–01.30	9675, 11840, 15120
Spanish	
00.00–00.30	9675, 11840, 15120
01.30–01.55	9675, 11840, 15120

DX-PRGR: English: 2nd Fri of the month 18.30 and following Mon 21.30. **Swedish:** Thurs 17.30, 21.30. **Danish:** Wed 16.30, 19.30 (fortnightly).
ANN: Home Sce: "This is Polskie Radio Warsaw" (or another station when local programme) – "Tu Polskie Radio Warszawa". – **Foreign Sce: E:** "This is Warsaw calling" – **Polish:** "Mówi Warszawa" – **F:** "Ici Varsovie etc" – **G:** "Hier spricht Warszawa" – **Sp:** "Habla Radío Varsovia" – **I:** "Qui Radio Varsavia" – **Danish:** "Her er Warszawa" – **Swedish:** "Här är Polens Radio Warszawa".

Advertisement

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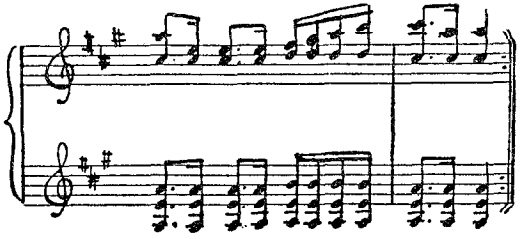
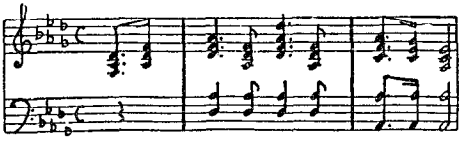
For further information, write to: Telecommunication Journal, ITU, Place des Nations, Geneva, Switzerland.

AUTHORITATIVE • READABLE • COMPREHENSIVE

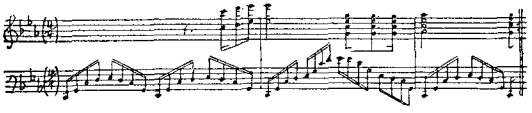
INT-SIG: Home Sce: Warsaw National, Warsaw I:



Warsaw II: First movement of Polonaise in A flat major by Chopin.



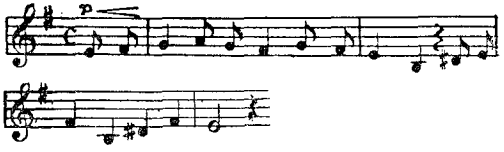
Foreign Sce: Revolutionary Etude by Chopin. – V. by QSL-card.



V. by QSL-card and letter. Re. to Polskie Radio. Al Niepodleglosci 75/77, Watsaw – **PUB**: "Radio i Telewizja" (weekly), Polish Radio and Television Bulletin (monthly).

POLISH PATHFINDERS STATION (Operated by the Polish Pathfinders Union) – **ADDR**: Konopnickiej 6, Warsaw – **L.P**: Gen. Dir: J. Grygolunas. Dir. Tec: J. Sieluzycki.
HOME SCE. in Polish: W 11.00–17.00(exc. Mon) on 6850kc 43.80m 0.35kW, Sun 09.00–17.00 on 7306kc 41.06m 0.35kW.

ANN: "Tu Rozglosnia Harcerska" (Here is Polish Pathfinders Station) – **INT-SIG**:



V. by letter Rp – **F.PL**: Power to 1kW.

PORTUGAL

L.T: GMT (GMT+1 h from 1st. Sun in April to 1st. Sun in October) – **Pr.L**: Portuguese.

EMISSORA NACIONAL DE RADIODIFUSÃO (Gov.)
ADDR: Rua do Quelhas 2, Lisboa. **Cable**: "Emissora-Lisboa". **Te**: 660181 PBX – Emissor Regional do Norte: Rua Cândido dos Reis, Porto – Emissor Regional de Coimbra, Faro, Guarda, Portalegre, Elvas, Covilhã, Viseu, Lousã e Monchique – Emissor Regional dos Açores, Ponta Delgada, Açores – **L.P**: Dir. Gen: Dr. S. Allegro. Dir. Tec: Eng. M. Bivar. Dir. Adm: Dr. C. Rogeiro. Dir. Prgr: Eng. J. da Silva Dias. Internat. Sec: Dra. M. P. de Barros Santos. External Rel: Dra. V. de Carvalho.

HOME SERVICE

NETWORK I: 07.00–01.00 (Sat 02.00).
Medium Waves:

	kc	m	kW		kc	m	kW
Lisboa I	665	451	135	Elvas	1331	225	1
Faro	557	539	1	Viseu	1358	221	1
Guarda	557	539	1	Porto	1367	219	10
Norte I	719	417	25	Coimbra	1448	207	1
Portalegre	1196	251	25	Covilhã	1562	192	1

Short Waves (to Atlantic):
Lisboa: 11875kc 25.26m 5kW: 12.30–13.30, 20.00–21.15, 22.15–22.45 – 11925kc 25.16m 10kW: 08.00–21.00 – 6185kc 49.79m 10kW: 21.20–24.00. Ponta Delgada (Azores): 4865kc 61.66m 1kW: 14.00–15.00, 20.00–24.00.

RADIO PORTUGAL

The Voice of the West

Daily programmes in.

English
French
Spanish
Italian
German
and
Concanin

ic

FM:	Mc	kW		Mc	kW		Mc	kW
Lisboa I	95.7	12	Monchique I	88.9	2.5	Porto II	92.5	22
Porto I	96.7	22	Guarda I	94.7	0.5	Lousã II	89.3	22
Lousã I	87.9	40	Lisboa II	94.3	12	Monchique II	91.5	2.5

NEWS: 07.05, 08.00, 09.00, 10.00, 11.00, 12.00, 13.00, 15.00, 16.30, 18.00, 19.00, 20.30, 22.30, 24.00, 00.50.
NETWORK II: 08.00–17.00 (Sun 09.25), 18.00 (Sun 12.00)–22.00. Lisboa II 755kc 397m 135kW – Norte II 1061kc 283m 25kW.
NEWS: 12.00, 20.00 – **ANN:** "Emissora Nacional, a transmitir com... (regional tr's)".

OVERSEAS SERVICE (in Portuguese)

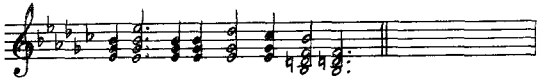
Short Waves: 50/100kW. All st's located at S. Gabriel – studios in Lisboa. All tr's directional. Call: CSA

kc	m	kc	m	kc	m	kc	m
5975	50.21	9635	31.14	15125	19.83	17890	16.77
6025	49.79	9645	31.10	15380	19.50	17895	16.76
6185	48.50	9740	30.80	17740	16.92	21495	13.96
7130	42.08	11840	25.34	17880	16.78	21700	13.83
7225	41.52	11935	25.14				

Remark: Powers indicated are the power at carrier level.
Areas: I) Timor; II) Macau; III) Goa (Port. India); IV) S. Tomé/Angola/Mozambique; V) Guinea/Cape Verde/Brasil; VI) USA/Canada/Portuguese Fishing Fleet; VII) USA/Canada.

H of tr.	Area	Nov/May (kc)	N
00.00–02.00	VI	6025/6185	00.15
02.45–03.45	VII	6025/6185	03.00
04.45–07.00	IV	7130/11840	05.00, 06.45
09.15–13.30	I	21495	09.30, 10.30, 12.00, 13.15
09.15–13.30	II	17890	09.30, 10.30, 12.00, 13.15
09.15–13.30*	IV	17740/21700	09.30, 10.30, 12.00, 13.15
13.45–17.00***	V	15125/21700	14.00, 16.45
15.15–17.00***	III	17895/21495	15.30, 16.30
15.15–21.15**	IV	11840/15125	17.30, 18.30, 20.00
21.30–01.00	V	9635/11840	22.00, 23.30, 00.15

* Sun 09.15–17.15, ** Sun 13.45–21.45, *** exc. Sun.
ANN: "Aqui Lisboa, Serviço Ultramarino da Emissora Nacional" – **INT-SIG:** T.S. and National Anthem.



V. by QSL-card. Recordings accepted – **PUB:** "Rádio e Televisão" (weekly).

INTERNATIONAL SERVICE ("The Voice of the West")

Medium Waves

H of tr.	L.	Area	kc
22.00–22.45	French	Europe	755, 1061
22.45–23.30	English	Europe	755, 1061
23.30–00.15	German	Europe	755, 1061

Short Waves:
I) N.Z. & Far East; II) So.Ea.Asia; III) Africa; IV) Europe; V) So. America; VI) No.America.

English	Area	kc	German	Area	kc
07.30–09.00	I	7130/9645	21.45–22.30	IV	6025/7225
13.45–14.30(W)	II	17895/21495	**Italian**		
18.15–19.15	III	15380/17880/21495	21.00–21.45	IV	6025/7225
			Konkani		
20.15–21.00	IV	6025/7225	14.30–15.15(W)	II	17895/21495
02.00–02.45[1]	VI	6025/6185	**Portuguese**		
03.00–03.45	VI	5975	04.45–06.00*	IV	6185/7225
03.45–04.30[2]	VI	6025/6185			
French			**Spanish**		
17.30–18.15	III	15380/17880/21495	01.00–01.45	V	9635/11840
19.30–20.15	IV	6025/7225			
02.15–03.00	VI	5975			

[1] to East Coast. [2] to West Coast. * Sun 08.30.

NEWS: English 07.30, 13.45, 18.15, 20.15, 02.00, 03.00, 03.45. **French:** 17.30, 19.30, 02.15. **German:** 21.45. **Italian:** 21.00. **Konkani:** 14.30. **Spanish:** 01.00.
DX-Prgr (in English): Every second Fri and Mon: Fri 18.15, 23.00, Mon 02.15, 04.15.
ANN: E: "This is the Voice of the West speaking to you from Lisbon, Portugal". F: "Ici la voix de l'Occident qui vous parle de Lisbonne, Portugal". Sp: "Esta es la Voz del Occidente que habla desde Lisboa, Portugal". I: "Queste é la Voce dell'Occidente che vi parla da Lisbonna, Portogallo". G: "Hier ist Die Stimme des Westens aus Lissabon im Portugal". Konkani: "Lisboa xarantlo Radio".
INT-SIG: Signature tune of foreign language broadc. is the opening bars of the Fifth Symphony by Beethoven. Closes with National Anthem – V. by special QSL-card. Recordings accepted – **PUB:** R. Portugal Listeners Magazine, monthly, free of charge.

Brown Boveri & Co. Switzerland: 2×135kW, 2×25kW mw-tr's, 1×100kW sw-tr – RCA, USA: 1×10kW mw-tr – GE, USA: 1×1kW mw-tr, 2×100kW sw-tr's – Collins, USA: 4×1kW mw-tr's – Westinghouse, USA: 1×40kW, 2×12kW FM tr's – Philips, Holland: 3×22 kW FM-tr's – Rhode & Schwarz, Germany: 2×2.5kW FM-tr's – Redifon, G.B: 1×0.5kW FM-tr.
Wilh. Franz KG, Germany: EMT studio equip.

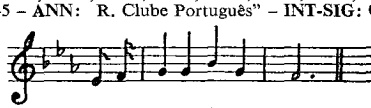
R. UNIVERSIDADE (Gov. – Ministry of Nat. Education)
ADDR: R. D. Estefania 14, Lisboa 1. Te: 41884 – **L.P:** Dir: Dr. A. R. Gonçalves Pereira. Operations Coordinator: A. Prates Nunes. Tec. Asst: V. Felix.
HOME SCE: Cultural and informative prgrs. mainly: W 17.00–17.55, Sun 09.30–11.55 on 755kc (Lisboa II).
ANN: "R. Universidade, estudios do Centro Universitário de Lisboa da Mocidade Portuguesa, a transmitir por intermédio da estação Lisboa II da Emissora Nacional" – **INT-SIG:** Opens with "Gaudeamus Igitur" and closes with the "Marcha da Mocidade Portuguesa" – **V.** by QSL-card. Recordings accepted – **F.PL:** FM tr's in Lisboa. Coimbra, Porto – **PUB:** monthly bulletin free.

RADIO RENASCENCA (Rlg. Catholic)
ADDR: Emissora Catolica Portuguesa, Rua Capelo 5, 2°, Lisboa.
STATIONS: Lisboa CSB3 1286kc 233m 2kW – CSB2 6155kc 48,74m 3kW – Porto CSB30 1169kc 256m 10kW.
HOME SCS: 07.00–02.00 – **N:** 08.25, 12.45, 20.30.
ANN: "R. Renascenca–Emissora Catolica Portuguesa" – **INT-SIG:** Gong. Prgr's open with a religious choir – **V.** by QSL-card.

RADIO CLUBE PORTUGUÊS
(Comm. Sociedade Anónima Cooperativa de Responsabilidade Lda.)
AD: 15% of broadc. time – **ADDR:** Central Office: Rua Sampaio e Pina 26, Lisboa 1. **Cable:** Radioclube. **Te:** 682071. **Telex:** 596. No. Branch: Delegação do Norte, Rua de Ceuta, 53, Porto. Te: 23863. **Telex:** 742 – **L.P:** Gen. Mgr: A. Lima Basto. Comm. Dir: J. Botelho Moniz. Dir. Prgr: A. Jorge. Dir. Tec: M. Menezes. Dir. Insp: A. Moita de Deus. No. Branch: H. Schreck.

STATIONS:		kc	m	kW	h of tr.
Miramar	CSB9	782	383.6	100	07.00–02.00
Parede	CSB2	1034	290.1	25	24 h
Parede	CSB51	6080	49.34	10	24 h.

FM: Lisboa 97.4Mc, Porto 97.7Mc, Foia 88.1Mc, Lousã 90.8Mc, Portalegre 98.9Mc: 08.00–01.00.
N: 00.45, 01.45, 02.45, 04.45, 06.45, 08.45, 10.45, 12.45, 17.45, 19.45, 21.00, 23.45 – **ANN:** R. Clube Português" – **INT-SIG:** Gong.



V. by QSL-card. Recordings accepted.

EMISSORES ASSOCIADOS DE LISBOA (Comm.)
FI: Priv. (4 partners) – **AD:** 15×broadc. time – **ADDR:** Rua de Campolide 27, 6°D°, Lisboa 1. Te: 683450. **Studios:** R. Voz de Lisboa: Av. Infante Santo 53, Lisboa 3. Clube Radiofônico de Portugal: R. Carlos Mardel 5, Lisboa 1. R. Graça: R. Verónica 126, Lisboa 2. R. Peninsulâr: R. Fialho Almeida 3, Lisboa 1 – **L.P:** Consulting Eng: C. Barradas da Silva. Tec. Dir: A. Laranjeira. Dir. Adm: A. Santos. Public Rel: C. Flor.
STATIONS: CSB4 1594kc 188m 10kW – **FM:** CSB266 99.4Mc 1kW.
HOME SCE: D 07.00–02.00. **N:** 12.20, 20.30 – **ANN:** "CSB4, Estação de Emissoras Associados de Lisboa" – **INT-SIG:** String chords (guitar) – **V.** by QSL-card.

EMISSORES DO NORTE REUNIDOS (Comm.)
ADDR: R. D. João IV 960, Porto. **Te:** 30781 – **L.P:** Dir: A. Rodrigues. Dir. Tec: F. Grilo.
STATIONS (*Collins; **RCA):
CSB5* 1578kc 190.7m 10kW – FM: CSB84** 91.3Mc 1kW.
HOME SCE: 07.00–05.00. **N:** 13.00, 23.45 – **ANN:** "Aqui Porto Emissores do Norte Reunidos a transmitir..." – **V.** by QSL-card or letter. Recordings accepted.

RADIO RIBATEJO (Comm.)
FI: By adv – **ADDR:** Av. 5 de Outubro, 34, Santarém. Te: 363 – **L.P:** Dir. Gen: J. Varela Santos. Dir. Tec: A. V. Santos.
STATION: 1322 kc 226.9 m 0.5 kW.
HOME SCE: 10.00–14.00, 18.00–20.00 (Sun 08.00–20.00).
N: 11.45, 13.45, 19.30 – **INT-SIG:** Gong – **V.** by QSL-card. Recordings accepted. Re. in P, Sp, F, E.

RUMANIA (Socialist Rep.)

L.T: GMT+2 h – **Pr.L:** Rumanian.

RADIODIFUZIUNEA SI TELEVIZIUNEA ROMANA (Gov.)
AD: Allowed in special cases. 35 mins per day – **ADDR:** P.O. B. 111, Bucuresti. Te: 134610. **Cable:** Radioteleviziunea. **Telex:** 250 – **L.P:** Pres: T. Marinescu. Vice Pres: S. Brucan, C. Prisnea, G. Ionescu, B. Ionita. Head For. Rel: D. Natu.

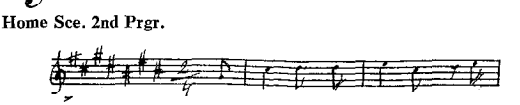
STATIONS:

Name	kc	m	kW	Name	kc	m	kW
Brasov	155	1935	150	Cluij	1151	260.9	50
Bucuresti	557	538.6	4	Constantza	1315	228.0	2
Timisoara II	628	477	30	Baia Mare	1428	210.5	2
Timisoara I	755	397.3	130	Craiova	1457	205.9	20
Bucuresti I	854	151.3	150	Brasov	1484	202.2	2
Miercurea	908	330.0	7	Sibiu	1484	202.2	2
Bacau	1052	285.3	50	Tg. Mures	1484	202.2	2
Oradea	1124	266.9	7				

HOME SERVICES:
1st Prgr: W: 03.00–22.00 on 155/1315/1428kc/66.74/70.4/71.19Mc; 03.00–05.30 on 854/1052/1457/1124kc/68.36Mc; 05.00–05.30 on 908/1151/1484kc; 05.30–13.00 on 628kc; 03.00–04.00 & 04.30–05.30 on 755kc (exc. Mon 03.00–05.30); 05.30–22.00 on 557kc.
Sun: 04.00–22.00 on 155/1315/1428/66.74/70.4/71.19Mc; 04.00–17.00 on 628kc. **N:** W 03.01, 04.00 (exc. Mon), 08.00, 10.00, 12.00, 14.00, 16.00, 20.00, 21.50, Sun 04.00, 05.00, 09.00, 11.00, 13.00, 16.00, 18.00, 20.00, 21.52 – **Wrp:** W 03.01, 14.00 (exc. Mon), 20.00, Sun 20.00.
2nd Prgr: W: 05.30–23.00 on 854kc; 05.30–15.30, 17.30–23.00 on 1052/1457kc; 05.45–13.00, 14.00–14.30 on 755kc (exc. Mon 05.45–13.00, 14.00–14.30, 17.00–17.30); 05.45–12.30, 17.30–23.00 on 908/1151/1484kc; 05.45–13.00, 13.30–14.30, 15.00–23.00 on 1124kc/68.36Mc; 05.30–16.00, 21.00–23.00 on 71.97/72.74Mc (exc. Thurs 05.30–16.00, 17.30–20.30, 21.00–23.00); 13.00–23.00 on 628kc. Close-down at Sat is 24.00. **Sun:** 04.00–23.00 on 854kc; 04.00–08.00, 08.30–23.00 on 1052/1457kc; 04.00–05.00, 06.00–06.30, 07.30–14.30, 15.15–17.00 on 755kc; 04.00–05.00, 08.30–14.30, 15.15–23.00 on 908/1151/1484kc; 04.00–06.30, 07.30–14.30, 15.15–23.00 on 1124kc/68.36Mc; 04.00–14.00, 21.00–23.00 on 71.97/72.74Mc; 17.00–23.00 on 628kc – **N:** W 05.30, 07.00, 09.00, 11.00, 13.00, 15.00, 17.00, 19.00, 21.00, 22.50. Sun 04.30, 05.30, 08.30, 12.00, 17.00, 19.00, 22.52 – **Wrp:** W 15.00, Sun 12.00.
3rd Prgr: 16.00(Sun 14.00)–21.00 on 71.97/72.74Mc. **N:** 14.00(Sun), 16.00(W), 17.30(Sun), 19.30.

Regional Services:
R. Bucharest on 755/908/1151/1124/1484kc/68.6Mc:
German: W 13.10–13.30, 14.30–14.55. Sun 06.30–07.20 (For children: 06.50–07.20).
Hungarian: W 05.30–05.45, 13.00–13.10, 14.55–15.00. Sun 07.20–07.30, 14.30–15.15.
R. Timisoara (755kc): W 15.00–16.59, Sun 05.00–05.59.
R. Cluij: On 908/1151kc: W 04.00–04.59, 13.30–14.29, 16.30–17.29. Sun 05.00–06.29.
Tg. Mures: On 908/1151kc: W 03.00–03.59, 12.30–12.59, 15.00–16.29. Sun 07.30–08.29.
Iasi/Craiova: On 1052/1457kc: W 15.30–17.29. Sun 08.00–08.29.
ANN: Home Sce: 1st Prgr: Opening: "Aici Bucuresti, dragi ascultatori, buna dimineata. Transmitem Programul nostru pe statiile de radio cu lunigimele de unda de...". 2nd Prgr: "Aici Bucuresti transmitem Programul II pe statiile de radio cu lungimele de unda de...". Close down: 1st, 2nd Prgr: "Aici Bucuresti, dam ora exacta. Emisiunea noastra s-a terminat. Ascultati-ne din nou miine dimineata la orele... pe lungimele de unda de... Dragi ascultatori, noape buna".

INT-SIG: Home Sce. 1st. Prgr:



Home Sce. 2nd Prgr.

FOREIGN SERVICE
Stations: 155kc 150kW, 755kc 130kW, other 120kW.

kc	m	kc	m	kc	m	kc	m
155	1935	6190	48.47	9570	31.55	11940	25.13
755	397.3	7195	41.70	9590	31.38	15250	19.67
5990	50.08	7225	41.52	11810	25.40	15380	19.50
6150	48.78	9510	31.55	11885	25.24		

Schedule: Oct. 65–April 66

FOR EUROPE

English	kc
19.30–20.30	6190/7195
22.30–23.00	155/6190/7195
French	
11.30–12.00	9750/11940
18.30–19.00	5990/6190/7195 7225/9510
French	
20.30–21.00	6190/7195
21.30–22.00	6190/7195
German	
19.30–20.00	5990/7225/9510
21.00–22.00	755
22.00–22.30	155/5990/7225 9510

Greek	kc
12.00–12.30	6190/7195
18.00–18.30	755
20.30–21.00	755
Italian	
12.30–13.00	7195/9570
19.30–20.30	755
22.00–22.30	755
Portuguese	
21.00–21.30	5990/6190/7195 7225/9510
22.30–23.00	7225/9510
Rumanian	
20.00–20.30	5990/7225/9510
22.00–22.30	6190/7195
22.30–23.00	755
Serbian	
17.00–17.30	755
19.00–19.30	755
Spanish	
19.00–19.30	5990/7225/9150
20.30–21.00	5990/7225/9510
21.30–22.00	5990/7225/9510

FOR ASIA

English	kc
15.00–15.30	11940
Persian	
15.30–16.00 / 17.00–17.30	6190/7195/7225 9510/9570

FOR AFRICA

English	kc
15.00–15.30	11810/11885/15380
French	
11.30–12.00	11810/15380
17.30–18.00	6190/7225/9510 11885

FOR NEAR EAST

Arabic	kc
16.00–16.30 / 18.00–18.30	6190/7195/7225 9510/9570
19.00–19.30	6190/7195
Turkish	
16.30–17.00	5990/6190/7195 7225/9510
17.30–18.00	755

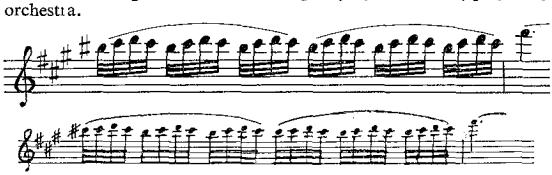
FOR USA

English	kc
01.30–02.30	5990/6150/6190 9510/9590/11810
03.00–03.30 / 04.30–05.00	5990/6150/6190 9510/9570/9590 11810
Rumanian	
23.15–24.00	6150/6190/9510
03.30–04.00	5990/6150/6190 9510/9570/9590 11810
Yiddish	
02.30–03.00	5990/6150/6190 9510/9590/11810

FOR LATIN AMERICA

Portuguese	kc
22.30–23.00	9570
01.00–01.30	5990/6150/6190 9510/9590/11810
Spanish	
00.00–01.00	5990/6150/6190 9510/9590/11810
04.00–04.30	5990/6150/6190 9510/9570/9590 11810

ANN: E: "This is Bucarest calling ... in the ...meter bands, that is ...kc, with today's first (second, third), broadcast in English". F: "Ici Bucarest. C'est Bucarest qui vous parle sur... Bonjour cheres auditrices, bonjour chers auditeurs. Veuillez écouter notre première émission en langue française de la journée. I: "Parla Bucarest. E'Bucarest. che vi parla nella sua prima (seconda, terza, quarta) transmissione della giornata, su onde corte (medie) di metri... Amci escoltatori, buona sera". Sp: "Aqui Bucarest. Muy buenas noches, estimados oyentes. Comienza nuestra emision en lengua española por campos de onda de... metros". G: "Hier ist der Rumänische Rund- und Fernsehfunk mit der Sendung in deutscher Sprache. Sie hören uns auf Kurzwelle... gleich ...kHz... und auf Mittelwelle...". "Liebe Hörerinnen und Hörer, Radio Bucarest wünscht Ihnen Gute Nacht".
INT-SIG: Foreign Service: First Rhapsody by G. Enescu, played by orchestra.



V. by QSL-card or letter – PUB: "Programul de Radio si Televiziune" AKG, Austria: delivered studio equip. (recorders, microphones). Telefunken AG, Germany: studio equip. (recorders). – Wilh. Franz. KG, Germany: EMT studio equip. WSW, Austria: studio equip.

SPAIN

L.T: GMT+1 h – Pr.L: Spanish.

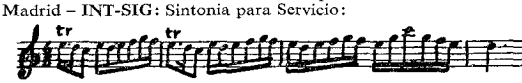
RADIO NACIONAL DE ESPAÑA (Gov.)

ADDR: General Yague 1, Madrid. Te: 2547000 – L.P: Dir. Gen: Broadc. TV: D. J. Aparicio Bernal. Vice Dir. Broadc: D. M. Aznar Acedo. Dir. R. Nacional: D. J. Manuel Riancho. Secr. Gen. Broadc. TV: D. M. Ledesma Adán. Dir. Tec. Broadc. TV: D. J. Sánchez Cordovés. Chief Adm. Broadc. TV: D. A. Timermans Diaz. Chief of Constructions, Installations (Broadc): D. E. Fernández Marrero. Dir. Tec. Intern. Org. (Broadc): D. J. M. Arto Madrazo. Chief low freq's: D. F. Mestre Carretero. Chief sw-tr's: D. C. González Madroño. Chief mw-tr's: D. A. Prieto Arozamena. Chief Adm: D. M. Martínez Pubul. Coordination: D. M. Estévez Alvarez. Tr's: D. M. Prats Cañete. Prgr's: D. R. Ramos Losada. Inf's: D. J. L. Echarri Gamundi. Music: D. E. Franco Manera. Chief Foreign Sce: D. L. de Andrés Frutos. Chief Editor, N: D. F. Ruiz de Elvira, D. Clemente Pamplona Blasco. Chief of Public Rel: D. E. Pascual Souto.

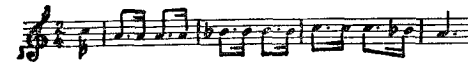
HOME SERVICE

STATIONS	kc	m	kW	H of tr.
Asturias (Oviedo)	548	547	5	07.45–23.10
Madrid	584	513.7	200	03.55–24.00
San Sebastian	638	470	25	05.57–00.15
Sevilla	647	464	5	06.50–00.10
Sevilla	683	439	250	03.55–00.10
La Coruña	728	412	100	06.55–00.15
Barcelona	737	407	250	24 h
Valencia	773	388	25	06.30–00.30
Madrid (Arganda)	917	327	50	17.55–24.00
Barcelona	935	321	20	05.55–01.00
Madrid (Peninsular)	989	303	50	05.57–01.00
Malaga	1007	298	6	06.45–00.15
Cuenca	1178	254	5	07.45–00.15

FM: Madrid 92.7Mc 72kW – Bilbao 92.7Mc 21kW – Zaragoza 89.1Mc 6kW – Alicante 88.5Mc 30kW – Stgo. de Compostela 92.7Mc 30kW – Sevilla 89.7Mc 30kW – Barcelona 93.0Mc 72kW – Valencia 92.0Mc 1.5kW – Oviedo 90.3Mc 1.5kW – San Sebastian 90.0Mc 30kW.
N: 07.00, 13.30, 21.00, 24.00.
ANN: "Transmite R. Nacional de España desde sus estudios en Madrid – INT-SIG: Sintonia para Servicio:



Señal de pausa (trumpets):



FOREIGN SERVICE

Madrid-Arganda:

kc	m	kW	kc	m	kW	kc	m	kW
6130	48.94	100	9360	32.05	50	9695	30.94	100
6140	48.86	100	9370	32.01	100	11715	25.61	100
7105	42.22	100	9615	31.20	50	15420	19.45	100

EUROPEAN AND OVERSEAS SERVICE

TO EUROPE

Czech/Slovak	kc
06.30–07.30	6140, 7105, 9695
13.00–14.00	6130
17.00–18.00	9615
Croatian	
09.00–09.30	6140, 7105, 9695
15.30–16.00	6130
19.30–20.00	9615
English	
20.20–20.50	9360
French	
20.50–21.20	9360
German	
21.20–21.40	9360
Hungarian	
07.30–08.00	6140, 7105, 9695
14.00–14.30	6130
18.00–18.30	9615
Italian	
21.40–22.00	9360
Polish	
08.00–09.00	6140, 7105, 9695
14.30–15.30	6130
18.30–19.30	9615
Spanish	
16.30–22.00	6140, 7105, 9695
Ukrainian	
05.30–06.30	6140, 7105, 9695
12.00–13.00	6130
16.00–17.00	9615

TO NO. AFRICA/N. EAST

Arabic	kc
17.30–19.30	9360
Arabic/French	
13.30–14.30	9360
16.00–17.00	9360
23.00–24.00	6130

TO SP. GUINEA

Spanish	kc
18.00–22.45	9370

TO PHILIPPINES

Spanish	kc
10.30–12.30	9695, 11715, 15420

TO USA/CANADA

English	kc
01.00–01.45	6130, 9615
02.00–02.45	6130, 9615
03.00–03.45	6130, 9615

TO LATIN AMERICA

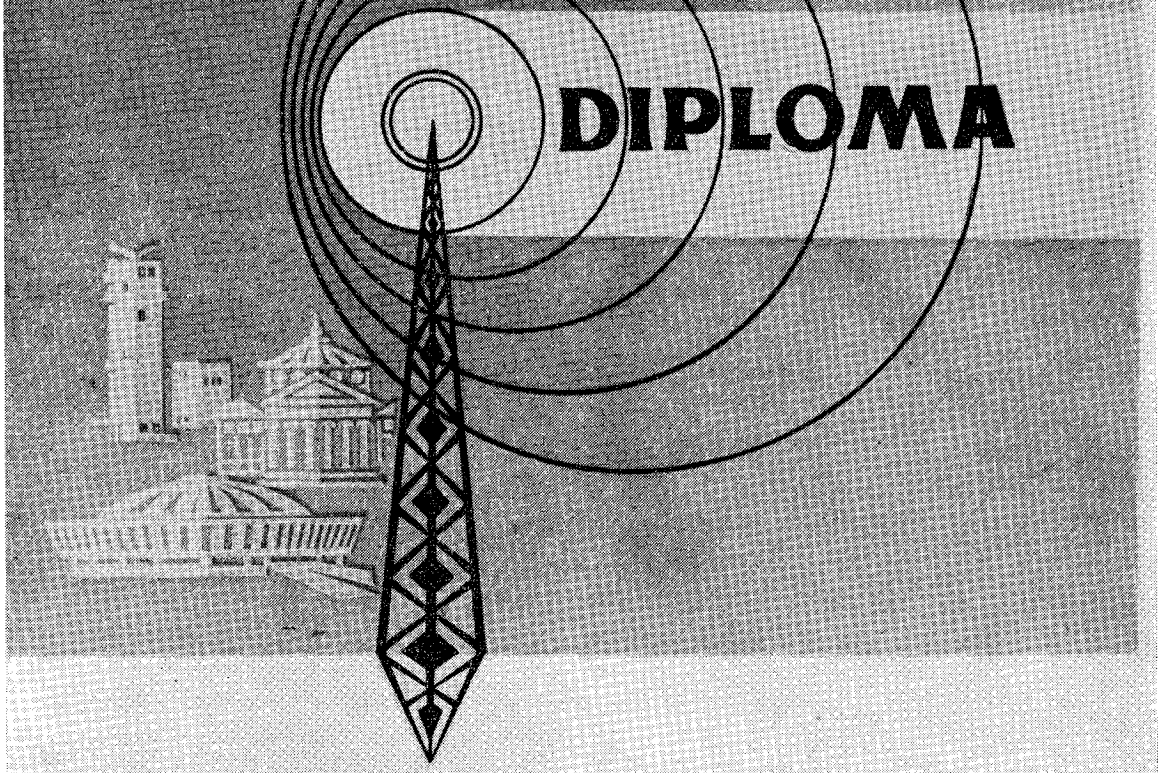
Spanish	kc
23.00–05.00	6140, 9360, 9370, 11715

ANN: E: "This is the voice of Spain broadc. from the Spanish National Radio in Madrid" – INT-SIG: Gong and the following tune:

V. by QSL-card or letter – PUB: R. Nacional de España for Spanish Sce (fortnightly).
Nippon Electric Co. Japan: delivered to Ministerio de Informacion y Turismo 200kW mw-tr, (parallel operation with two 100kW tr's). Brown Boveri, Switzerland: Mw-tr's: Sevilla 2×125kW, Barcelona 2×125kW, Madrid 1×20kW. — Telefunken AG, Germany: 100kW sw-tr (Barcelona) – 3×0.3kW FM-tr's. Wilh. Franz KG, Germany: EMT studio equip. AKG, Austria: microphones; WSW, Austria: studio equip.

RED DE EMISORAS DEL MOVIMIENTO (R.E.M.)
(Broadcasting System of the Phalanx)

The Red de Emisoras del Movimiento belong to the National Delegation of Press and Radio.
FI: by own resources – AD: 10 min per h – ADDR: Generalisimo 142, Madrid 1. Te: 2350640 – L.P: Dir. Gen: R. Merino Lopez. Dir. Adm: M. Sagrera G. Dir. Tec: M. Vasquez E. Dir. Prgr: J. León D.



Do you want to have this beautiful diploma to hang on the wall above your radioreceiver ?
We are pleased to announce that Radio Bucharest will be awarding 1,ooo diplomas, numbered from 1 - 1,ooo, to the first thousand of our listeners who will send us 12 reception reports, within 3 months. These reports should be numbered from 1 to 12 and marked "for the diploma".
At the same time, we should like to let you know that our special broadcast for radioamateurs is on the air every Wednesday and Friday during our transmission at 1,3o GMT, that is 2o.3o EST and 3 GMT that is 22 EST for North America and at 19.3o GMT and 22.3o GMT for Europe .

STATIONS	Call	kc	m	kW	H of tr.
La Voz de Valladolid	EFE- 1	1570	191.6	1	07.00–23.30
La Voz de Palencia	EFE- 4	1133	264.8	2	07.00–23.00
La Voz de León	EFE- 5	1570	191.6	2	07.00–23.00
La Voz de Extremadura	EFE- 6	1133	264.8	5	07.00–23.00
La Voz de Alicante	EFE- 8	1570	191.6	2	06.45–23.30
La Voz de Alava	EFE-10	1570	191.6	1	07.00–15.30
La Voz de Madrid	EFE-14	1079	278.0	20	05.55–03.00
La Voz de Levante	EFE-17	1570	191.6	5	07.00–23.30
La Voz de Castellón	EFE-19	1133	264.8	1	07.00–23.00
La Voz de Principado de Asturias	EFE-22	1133	264.8	5	07.00–01.00
La Voz de Guipuzcoa	EFE-23	1570	191.8	5	07.00–23.00
La Voz de Cantabria	EFE-25	1570	191.6	2	07.00–24.00
La Voz de Vigo	EFE-31	1133	264.8	5	07.00–24.00
La Voz del Mediterraneo	EFE-33	1133	264.8	5	07.00–24.00
La Voz de Cataluña	EFE-50	1570	191.6	5	06.30–24.00
La Voz de Navarra	EFE-57	1133	264.8	5	07.00–17.00 20.00–23.00
La Voz de Andalucia	EFE-58	1570	191.6	15	07.00–23.30

INT-SIG: Xylophone – V. by letter. Rp.
Locations indicated give a sufficient address: EFE-6=Cáceres; EFE-11=Vitoria; EFE-17=Valencia; EFE-22=Oviedo; EFE-23=San Sebastián; EFE-25=Santander; EFE-33=Tarragona; EFE-50=Barcelona; EFE-57=Pamplona; EFE-58=Córdoba.

CADENA AZUL DE RADIODIFUSION (C.A.R.)

(Delegación Nacional de Juventudes)
Organization: For the educational work of radio in Spain and for training of people engaged with radio.
ADDR: Reina 33, Madrid. **Te:** 231-24-02. **Cable:** Cadenazul.
STATIONS: Call: EFJ––. Name: R. Juventud de––.

	Call	kc	m	kW	h of tr.
Soria	EFJ-2	1570	191.6	2	07.00–23.00
Cadiz	EFJ-5	1133	264.8	2	07.00–24.00
Galicia	EFJ-11	1570	191.6	2	07.00–24.00
Murcia	EFJ-19	1133	264.8	2	06.00–01.00
Albacete	EFJ-23	1133	264.8	2	07.00–23.00
Almería	EFJ-25	1133	264.8	2	07.00–23.00
Ponferrada	EFJ-29	1133	264.8	2	07.00–23.00
Vizcaya (Bilbao)	EFJ-43	1133	264.8	5	06.00–24.00
Baleares (Inca)	EFJ-45	1570	191.6	2	07.00–24.00
Zaragoza	EFJ-46	1570	191.6	5	06.00–24.00
Calahorra	EFJ-50	1133	264.8	2	07.00–23.00
Huelva	EFJ-51	850	352.9	5	09.00–23.00
Aranda de Duero	EFJ-52	1133	264.8	2	07.00–15.00, 18.00–22.00
Málaga	EFJ-56	1133	264.8	5	06.00–01.00
Asturias	–	1570	191.6	2	
Barcelona	–	1570	291.6	5	
Béjar	–	1570	191.6	2	
Burgos	–	1570	191.6	2	

FM: La Voz de Madrid (EFJ14) 88.8Mc 1kW: 11.00–23.00, Barcelona (EFJ15) 89.7Mc 0.25kW: 06.00–01.00, Zaragoza (EFJ46) 94Mc 0.3kW: 18.00–24.00, Sta. Cruz de Tenerife (EFJ57) 95Mc 0.25kW: 09.00–23.00, Morón (EFJ63) 92Mc 2kW: 06.45–23.00.
D.PRGR: Consist of cultural and educational prgr's, information service about the youth-work, actualities and entertainment.
ANN: "Habla R. Juventud de... Estacion num... de la Cadena Azul de Radiodifusión" – **INT-SIG:** Vibrafon.
V. by QSL-card. Recordings accepted.

SOCIEDAD ESPAÑOLA DE RADIODIFUSION (Comm.)

FI: By adv – **ADDR:** Av. de José Antonio 32, Apt. 745. Madrid. **Cable:** SER. **Te:** 2-22-11-81.
STATIONS (Main St's):

	Call	kc	m	kW	h of tr.
R. Barcelona	EAJ-1	827	362.7	5	03.00–02.55
R. Valencia	EAJ-3	1259	238.3	5	06.00–24.00
R. Galicia (Santiago)	EAJ-4	1412	212.4	2	06.00–23.00
R. Sevilla	EAJ-5	809	370.8	5	06.00–24.00
R. Madrid	EAJ-7	800	375.0	20	06.00–02.30
R. San Sebastian	EAJ-8	1025	292.7	5	06.00–24.00
R. Reus	EAJ-11	1475	203.4	2	06.30–24.00
R. Bilbao	EAJ-28	1412	212.4	5	06.00–24.00
R. Alicante	EAJ-31	1520	197.4	2	07.00–24.00
R. Alcira	EAJ-54	1520	197.4	1.7	06.30–24.00

ASSOCIATED STATIONS:

	Call	kc	m	kW	h of tr.
R. Requeté de Navarra (Pamplona)	EAJ-6	1412	212.4	2	06.00–23.00
R. Alcoy	EAJ-12	1106	271.0	1.3	06.30–23.00
R. Mallorca	EAJ-13	1475	203.4	5	06.00–24.00
R. Castellón	EAJ-14	1412	212.4	1.2	07.00–23.00
R. Granada	EAJ-16	1412	212.4	5	07.00–01.00
R. Murcia	EAJ-17	1412	212.4	2	06.00–24.00
R. Rioja (Logroño)	EAJ-18	1475	203.4	2	07.00–23.00
R. Asturias (Oviedo)	EAJ-19	1475	203.4	2	07.00–23.00
R. Huesca	EAJ-22	1106	271.0	2	06.30–23.00
R. Gandía	EAJ-23	1475	203.4	2	07.00–23.00
R. Castilla (Burgos)	EAJ-27	1412	212.4	9	06.55–23.00
R. Santander	EAJ-32	1475	203.4	1	06.30–23.30
R. Gijon	EAJ-34	1412	212.4	2	06.45–23.00
R. Gerona	EAJ-38	1520	197.4	2	06.00–24.00
R. Pontevedra	EAJ-40	1475	203.4	2	06.45–23.00
R. Lérida	EAJ-42	1520	197.4	2	06.00–23.00
R. Albacete	EAJ-44	1520	197.4	2	06.30–23.00
R. Valladolid	EAJ-47	1520	197.4	2	06.00–23.00
R. Vigo	EAJ-48	1520	197.4	5	06.45–23.45
R. Las Palmas	EAJ-50	953	314.6	3	07.00–01.00
R. Manresa	EAJ-51	1106	271.0	3	06.45–24.00
R. Extremadura (Badajoz)	EAJ-52	1106	271.0	2.5	06.45–23.00
R. Salamanca	EAJ-56	1106	271.0	2	07.00–23.00
R. Jerez	EAJ-58	1520	197.4	1	06.45–23.00
R. Almería	EAJ-60	1475	203.4	2	06.45–24.00
R. Jaén	EAJ-61	1520	197.4	2	06.00–23.00
R. Vitoria	EAJ-62	1106	271.0	2.5	06.00–23.00
R. León	EAJ-63	1106	271.0	2	07.00–23.00
R. Segovia	EAJ-64	1412	212.4	2	06.45–23.00
R. Ciudad Real	EAJ-65	1412	212.4	0.3	06.45–23.00
R. Lugo	EAJ-68	1520	197.4	1	06.45–23.00
R. Zamora	EAJ-72	1475	203.4	1	06.45–23.00
R. Zaragoza	EAJ-101	872	344.0	20	06.00–04.00

FM St's:
R. Barcelona (EAJ-1) 94Mc 1kW: 05.00–24.00; R. Requeté de Navarra (EAJ-6) 92.1Mc 1kW: 06.00–23.00; R. Granada (EAJ-16) 89.7Mc 1kW: 07.00–01.00; R. Murcia (EAJ-17) 91.5Mc 1kW: 06.00–24.00; R. Santander (EAJ-32) 92.1Mc 1kW: 06.30–23.30; R. Jerez (EAJ-58) 92.1Mc 1kW: 06.45–23.00; R. Segovia (EAJ-64) 96.6Mc 2kW: 06.45–23.00; R. Mediterráneo (Valencia) 97Mc 5kW: 06.00–24.00.
NATIONAL SERVICE:
The prgr's of Sociedad Espanola are rel. simultaneously by all st's at the following hours: Mon: 20.00–20.45, 21.30–22.00; Tues, Fri: 19.30–20.45, 21.30–22.30; Sat: 19.30–20.45, 21.30–24.00; Sun: 16.00–19.00.
ANN: Nat. Sce: "Transmite la Sociedad Española de Radiodifusion".
Local Service: "Transmite R... de la Sociedad Española de Radiodifusion – **INT-SIG:** Harp, piano – V. by letter. Recordings accepted
PUB: "ONDAS" fortnightly.

COMPAÑIA DE RADIODIFUSION INTERCONTINENTAL (Comm.)

ADDR: Diego de León 50, Madrid. **Cable:** Ondatlantic.
STATION: EAJ29 953kc 314.8m 20kW.
HOME SCE: 07.45–02.00.
ANN: "Aqui R. Intercontinental, Madrid" – **INT-SIG:** Xylophone.
V. by QSL-card or by letter. Recordings accepted.
AKG, Austria, Studio equip. (recorders, microphones).

R. ESPAÑA

AD: Allowed all day – **ADDR:** Manuel Silvela 9, Madrid 10. **Te:** 2-23-29-40. **Cable:** Radiospana.
HOME SCE: Madrid EAJ2 854kc 351.2m 12kW: 07.00–01.00. N: 19.30–20.10 – **ANN:** "EAJ2 R. España, Madrid".

R. ESPAÑA DE BARCELONA

ADDR: Ramblas 126, Barcelona 2. **Te:** 2-22-0751 – **L.P:** Dir. Gen: G. Serraclara de la Pompa. St. Mgr: A. Banda Moras.
HOME SCE. (System: Collins): EAJ15 1124kc 266.9m 10kW: 06.00–02.00 – V. by letter. Recordings accepted.
Affiliated st's: EAJ38 R. Gerona 1520kc – EAJ42 R. Lérida 1520kc, 2kW: 07.00–23.00 – EAJ51 R. Manresa 1106kc 2.5kW.

RUEDA DE EMISORAS RATO

ADDR: Jorge Juan, 27 Madrid. **Te:** 2760407.
L.P: Dir. Gen: R. de Rato. Dir. Tec: A. Caballos P.
MAIN STATION: EAJ49 R. Toledo 1520kc 197.4m: 07.00–23.00.
Branch St's: EAJ60 R. Almeira[2] 1475kc, EAJ26 R. Antequera[3] 1106kc, EAJ59[4] R. Cadiz 1475kc, EAJ35 R. Panadés[5] 1106kc.
[1] Navarro Ledisma 4, Toledo – [2] Arapiles 2, Almeria – [3] Ramon y Cajal 41, Antequera (Malaga) – [4] José del Toro 10, Cadiz – [5] Rambla del Caudillo 10, Villanueva y Geltru (Barcelona).
D.PRGR: 08.00–23.00. N: every h.
INT-SIG: Electric gong (two tones) – V. by letter. Recordings accepted

CADENA DE ONDAS POPULARES ESPAÑOLA

ADDR: Avda. José Antonio, 55 (Los Sótanos-25), Madrid 13.
STATIONS: Call: EAK (R. Popular de):

	Call	kc	m	kW	h of tr.
Albacete	EAK-46	1394	215.2	2	07.00–24.00
Alicante	EAK-31	1394	215.2	2	
Astorga (León)	EAK-48	1394	215.2	2	07.00–24.00
Asturias (Avilés)	EAK-91	1502	199.7	2	06.55–23.00
Badajoz	EAK-21	1394	215.2	2	08.00–23.00
Bilbao	EAK-13	1502	199.7	2	05.54–23.00
Burgos	EAK-3	1502	199.7	2	07.00–23.00
Ciudad Real	EAK-22	1502	199.7	2	07.00–22.00

	Call	kc	m	kW	h of tr.
Figueras	EAK-82	1430	210.0	2	09.00–23.00
Guimar-Tenerife	EAK-83	1133	264.8	2	
Huelva	EAK-14	1430	210.0	2	07.00–23.00
Ibiza	EAK-24	1502	199.7	2	
León	EAK-25	1430	210.0	2	07.00–23.00
Lérida	EAK-15	1430	210.0	2	06.55–23.00
Lorca	EAK-29	1430	210.0	2	08.00–23.00
Mallorca-Palma	EAK-18	1394	215.2	2	07.00–22.30
Menorca-Mahón	EAK-67	1430	210.0	0.4	
Córdoba	EAK-90	1394	215.2	2	06.45–22.00
Murcia	EAK-12	1502	199.7	2	06.00–24.00
Pamplona	EAK-4	1502	199.7	2	07.00–23.00
Puertollano	EAK-23	1430	210.0	2	
Reus	EAK-53	1394	215.2	2	
Salamanca	EAK-19	1502	199.7	2	08.00–23.30
San Sebastián	EAK-44	1394	215.2	2	07.00–24.00
Radio Vida (Sevilla)	EAK-2	1502	199.7	2	06.00–01.00
Malaga	EAK-42	1430	210.0	2	
Valencia	EAK-5	1430	210.0	2	05.30–24.00
Zamora	EAK-37	1394	215.2	2	07.00–23.00
Zaragoza	EAK-6	1394	215.2	2	07.00–23.00
FM: Zamora	EAK-37	97Mc	1kW		07.00–23.00

F.PL: FM for all mw st's. St's in Almeria, Avila, Barcelona, Cáceres, Castellón, Granada, Guadalajara, Huesca, Jaén, Jerez de la Frontera (Cádiz), El Ferrol del Caudillo (La Coruña), Logroño, Loyola, Lugo, Madrid, Orense, Santander, Valladolid, Vigo (Pontevedra), Vitoria.

CADENA DE EMISORAS SINDICALES (CES)

ADDR: Delegacion Nacional de Sindicatos, 2a Planta, Paseo del Prado 18 y 20, Madrid. Call=ECS No... V=La Voz...

	Call	kc	m	kW	h of tr.
V. de España (Madrid)	ECS-1	1385	216.6	20	07.00–23.00
R. Teruel	ECS-1	1133	264.8	3	07.00–23.00
R. Badajoz	ECS-2	1570	191.6	5	07.00–10.30 12.00–23.00
R. Gredos (Avila)	ECS-3	1133	264.8	15	07.00–23.00
R. Atlantico	ECS-4	1097	273.5	20	06.00–23.15
V. de Granada	ECS-5	836	359.0	5	07.00–00.30
R. Tortosa	ECS-6	1570	191.6	2	
R. Tárrega	ECS-7	1570	191.6	2	07.00–22.00
V. de la Mancha (Socuéllamos)	ECS-10	1570	191.6	3	06.50–23.00
R. Atalaya (Cabra)	ECS-12	1570	191.6	2	06.00–23.00
V. de Gerona	ECS-14	1570	191.6	2	07.00–24.00
R. Marbella	ECS-15	1570	191.6	3	07.00–23.00
V. del Guadalquivir (Sevilla)	ECS-23	1133	264.8	3	06.00–24.00
R. Orense	ECS-26	1570	191.6	1.5	08.00–23.00
V. de Ciudad Real	ECS-44	1133	264.8	3	06.45–23.00
V. de Jaen	ECS-69	1133	264.8	5	07.00–23.00

FM-Stations: ECS-2M R. Atlantico (Las Palmas); ECS-3M V. de Jaén 93.6Mc 0.5kW: 11.00–14.00, 19.00–23.00; R. Marchena 94.5Mc 0.5kW: 06.45–23.00.

OTHER STATIONS:

	Call	kc	m	kW	h of tr.
R. Sabadell	EAJ-20	1475	203.4	3	07.00–23.00
R. Melilla	EAJ-21	1520	197.4	1	06.00–15.30, 19.00–23.00
R. Córdoba	EAJ-24	1475	203.4	2	08.00–24.00
R. Tarrasa	EAJ-25	1412	212.4	0.2	08.00–22.30
R. Onteniente	EAJ-30	1412	212.4	1	09.00–16.00, 19.00–23.00
R. Miramar-Badalona	EAJ-39	1520	197.4	5	07.00–24.00
R. Algeciras	EAJ-55	1412	212.4	0.5	11.00–15.00, 19.00–23.00
R. Orense	EAJ-57	1106	271.2	3.8	08.30–23.00
R. Linares	EAJ-37	1106	271.2		
R. Elche	EAJ-53	1475	203.4	5	07.00–23.30
R. Ceuta	EAJ-46	1106	271.2	2	07.00–23.00
R. Coruña	EAJ-41	1520	197.0	2	

FM:
R. Miramar-Badalona (EAJ-39) 94.8Mc 1kW: 07.00–24.00; R. Elche (EAJ-53) 94.8Mc 0.5kW: 07.00–23.30.

SWEDEN

L.T: GMT+1 h – **Pr.L:** Swedish.

SVERIGES RADIO (Swedish Broadcasting Corporation)
(Non comm. semigov. broadc. corpo.)
FI: By license payments – **ADDR:** Radiohuset, Oxenstiernsgatan 2, Stockholm, Postal Addr: Box 955, Stockholm 1. **Te:** 670865 (local 631000). **Cable:** Broadcast.
L.P: Chmn. Board of Govenors: P. Eckerberg. Dir. Gen: O. Rydbeck. Dep. Dir: J. von Utfall. Dir. Finance Dept: L. Öhrström. Dir. Tec: J. von Utfall. Dir. Prgr (Radio): N. O. Franzen. Dir. Staff: N. Ragnå. Dir. Pub. Dept: M. Ginsburg. Dep. Dir. Tec: C. Wachtmeister. Dep. Head School Broadc: R. Lundgren. Asst. Head: S. S. Allebeck. Head International Dept. and External Relations: Mrs. B. Svinhufvud. Secr. Internat. Dept: G. Dahlin. Head Prod. International Dept: B. Järrel. Eurovision Office: Mrs. M. Lamby. Head Press and Inf: Ph. von Krusenstierna. Sound Radio Office: Mrs. B. de Radwan.
KUNGL. TELESTYRELSEN (The Telecommunications Administrations) has the responsibility for the distribution of the prgr's production by Sveriges Radio and has also charge of the collection of license fees.
ADDR: Box 16065, Stockholm 16. **Te:** 236040. **Cable:** Radiobyrån.
L.P: Dir. Gen: B. Bjurel. Chief of R. Dept: K. Ekström. Chief of division handling broadc. matters: S. R. Larsson.
STATIONS: Medium Waves: *=st's carrying night prgr.

Station	Prgr.	kc	kW
Boden	2	1594	0.15
Borås	1	1562	2
	2	1394	0.15
Eskilstuna	1	1562	0.5
Falkenberg	1	1448	0.15
Falun	1	*1223	100
Gävle	1	1448	0.5
Göteborg	1	*980	150
	2	1394	0.25
Halmstad	1	1562	2
	2	1394	0.15
Hudiksvall	1	1448	1.5
	2	1394	0.15
Hälsingborg	1	1448	1.5
Hörby	1	*1178	100
Jönköping	1	1448	2
	2	1594	0.2
Kalmar	1	1562	2
Karlskrona	1	1448	1.5
Karlstad	1	1562	1.5
	2	1394	0.15
Kiruna	1	1562	0.5
	2	1394	0.15
Kristinehamn	1	1448	0.15
	2	1594	0.15
Ludvika	2	1394	0.15
Luleå	1	*182	10
	2	1394	0.15
Malmberget	1	773	2
	2	1394	0.15
Malmö	1	1562	2

Station	Prgr.	kc	kW
Mariestad	2	1394	0.15
Motala	1	*191	600
Norrköping	1	1562	1.5
Piteå	2	1394	0.15
Porjus	1	1529	0.075
	2	1594	0.075
Stockholm	1	*773	150
	2	1394	0.25
Sundsvall	1	*593	150
	2	1394	0.15
Säffle	1	1448	0.15
	2	1594	0.15
Söderhamn	1	1562	0.06
	2	1394	0.15
Trollhättan	1	1448	2
	2	1594	0.15
Uddevalla	1	1562	0.5
	2	1394	0.15
Umeå	1	1448	2
	2	1594	0.15
Uppsala	1	1562	2
Varberg	1	1562	2
	2	1394	0.15
Visby	1	1448	0.5
Vänersborg	2	1394	0.15
Västervik	2	1394	0.15
Västerås	1	1448	2
Örebro	1	1562	0.5
Örnsköldsvik	1	1562	1.5
	2	1394	0.15
Östersund	1	*719	150

Wired Broadc: Prgr. 1: 164kc 1829m – Prgr. 2: 209kc 1435m.
Short Waves: Hörby I, II 100kW.
6065kc 49.46m – 9620kc 31.19m.

FM:	Prgr.	Mc	kW
Arvidsjaur	1	89.4	60
	2	94.2	60
Björkliden(s)	1	88.0	0.3
	2	93.9	0.3
Boden	1	94.5	60
	2	99.4	60
	3	90.6	15
Bollnäs	1	88.4	60
	2	91.8	60
	3	96.0	60
Borlänge	1	89.4	60
	2	93.0	60
Borås	1	88.5	10
	2	94.6	10
	3	97.9	10
Bäckefors	1	92.7	60
	2	96.8	60
Emmaboda	1	93.0	60
	2	96.7	60
	3	99.8	60
Enafors(s)	1	92.8	0.03
Gäddede(s)	1	88.9	0.03
	2	96.2	0.03
Gällivare	1	88.3	60
	2	94.9	60
Gävle	1	88.1	60
	2	97.4	60
	3	99.8	60
Göteborg	1	89.3	60
	2	96.3	60
	3	99.4	60
Halmstad	1	87.7	60
	2	91.2	60
Haparanda	1	91.3	60
	2	93.6	60
Hälsingborg	1	89.5	3
	2	95.7	3

FM:	Prgr.	Mc	kW
Hörby	1	88.8	60
	2	92.4	60
	3	97.0	60
Idre(s)	1	88.0	0.03
	2	89.9	0.03
Karlskrona	1	89.1	10
	2	95.0	10
	3	97.7	10
Karesuando(s)	1	87.6	0.3
	2	90.0	0.3
Kiruna	1	89.1	60
	2	92.7	60
	3	99.6	60
Laisvall(s)	1	90.8	0.03
	2	95.1	0.03
Lycksele	1	92.9	60
	2	95.4	60
Malmö	1	93.3	3
	2	98.7?	3
	3	98.7?	3
Mora	1	92.2	10
	2	96.7	10
Motala	1	91.1	3
	2	93.8	3
Norrköping	1	90.0	60
	2	93.5	60
	3	98.7	60
Nässjö	1	89.6	60
	2	92.1	60
	3	99.0	60
Pajala	1	87.9	60
	2	93.0	60
Seitevare(s)	1	90.9	0.03
	2	93.7	0.03
Skellefteå	1	93.8	10
	2	96.3	10

FM:	Prgr.	Mc	kW
Skövde	1	88.9	60
	2	95.1	60
	3	97.5	60
Sollefteå	1	93.5	60
	2	98.1	60
Stockholm	1	92.4	60
	2	96.6	60
	3	99.3	60
Stordalen(s)	1	89.6	0.03
	2	92.3	0.03
Storuman	1	87.6	60
	2	91.2	60
Strömstad(s)	1	91.6	0.03
	2	94.3	0.03
Sundsvall	1	92.7	60
	2	96.9	60
	3	99.2	60
Sunne	1	90.9	60
	2	94.5	60
	3	98.5	60
Sveg	1	90.6	60
	2	94.9	60
Torneträsk(s)	1	87.6	0.03
	2	91.3	0.03
Täsjö	1	89.8	60
	2	94.7	60
Tärnaby(s)	1	88.9	0.03
	2	95.7	0.03

FM:	Prgr.	Mc	kW
Uddevalla	1	89.9	60
	2	93.1	60
	3	97.2	3
Uppsala	1	90.3	3
	2	93.3	3
Varberg	1	90.4	3
	2	93.6	3
Vassijaure(s)	1	90.7	0.03
	2	95.1	0.03
Visby	1	87.6	15
	2	94.1	15
	3	97.2	15
Vislanda	1	88.0	10
	2	90.6	10
Vännäs	1	88.5	60
	2	92.1	60
	3	95.8	60
Västervik	1	91.8	25
	2	96.0	25
Västerås	1	90.7	15
	2	95.7	15
Örebro	1	87.9	60
	2	91.5	60
	3	99.6	60
Örnsköldsvik	1	90.8	3
	2	94.4	3
	3	97.8	3
Östersund	1	87.9	60
	2	91.5	60
Ånge	1	93.2	10
	2	95.6	10

St's to open before July 1st 1966: 4 st's (prgr. I+II), 7 st's (prgr. III).

HOME SERVICE

FIRST PRGR. (light, talk and music): Mon/Tues/Turs 04.50–23.00. Wed/Fri/Sat 04.50–24.00. Sun 06.00–23.00 – **Night Prgr.** on 182/192/593/719/773/980/1178 (exc. 23.00–24.00) 1223kc: Sun/Mon/Tues/Thurs 23.00–04.40, Wed/Fri 00.00–04.40, Sat 00.00–05.45.

Short Waves: 04.45–09.00 on 6065kc, 09.00–09.30 & 11.30–12.15 9620kc, 17.15–21.30 on 6065kc.

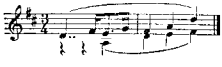
N: 07.00, 11.30, 14.00, 16.00, 17.30, 18.00, 21.00, 22.00. Mon–Fri: 04.00, 05.00, 05.30, 06.00, 06.30, 10.00, 20.00. Sat: 04.00, 05.00, 05.30, 05.58, 10.00 – **Wrp:** (incl. Forecast for Swedish Waters) D: 05.30, 07.00, 11.30, 18.00, 20.50, Forecast for Swedish Waters only: D. 16.00 – **Rlg. Prgr's:** Morning Sce's: W: 04.50, 06.15. Sun. Divine Sce: 10.00, 16.10.

SECOND PRGR: (Light music to approx. 17.15, serious talk and music after 17.00): W 04.40–22.30 (approx), Sun 05.45–22.30 (approx). **Rlg. Prgr's:** Evening Sce's: W 21.05, Sun 21.10.

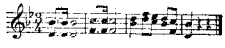
THIRD PRGR: Light music. W 17.15(Sat 16.15)–21.00, Sun 17.15–21.10.

ANN: (Nat. Prgr): "Sveriges Radio..." and the name of the transmitting st, for instance: "Sveriges Radio, Stockholm" – **INT-SIG:** Home Service 1st Prgr: The opening notes from Carl Michael Bellman's "Storm och böljor tystna re'n" and 2nd Prgr: from Bellman's "Fredmans Epistel No 64": "Fäll dina ögon och skäms nu din tåssa"

Home Service 1st Prgr:



Home Service 2nd Prgr:



FOREIGN SERVICE

Stations: Hörby 100kW.

kc	m	kc	m	kc	m	kc	m	kc	m
1178	254.7	6095	49.22	9765	30.72	11915	25.18	15420	19.46
5970	50.25	7270	41.27	11705	25.63	15195	19.74	17845	16.81
5990	50.08	9620	31.19	11805	25.41	15240	19.69		
6065	49.46	9705	30.91	11810	25.40	15315	19.59		

EUROPEAN SCE: 09.30–11.30, 14.00–14.30, 20.30–21.00, 21.15–22.45, 23.00–24.00. **English:** 11.00–11.30, 14.00–14.30 on 9620kc; 22.00–22.30 on 6065kc, 23.30–24.00 on 1178kc – **French:** 09.30–10.00 on 6065/9620kc, 20.30–21.00 on 5970kc, 21.45–22.15 on 6095kc – **German:** 10.00–10.30 on 6065/9620kc, 21.30–22.00 on 6065kc, 23.00–23.30 on 1178kc – **Portuguese:** 22.15–22.45 on 6095kc – **Spanish:** 21.15–21.45 on 6095kc – **Swedish:** 10.30–11.00 on 9620kc.

OVERSEAS SERVICE: I=Far East; II=Ea. No. Am; III=So-Asia; IV=M. East; V=Africa; VI=So. Am; VII=We. No. Am; VIII=Mexico C. Am; a=English, b=Swedish, c=German, d=Spanish, e=Portuguese, f=French.
A=7/11 65–6/3 66; B=6/3 66–1/5 66 & 4/9 66–6/11 66.
C=1/5 66–4/9 66.

Times	Areas	L	A(kc)	B(kc)	C(kc)
11.00–11.30*	I	a	7270	15195	15195
12.00–13.00	I	a	7270	11810	15195
13.00–13.45	I	b	11810	15195	17845
14.00–14.30	II	a	15420	15420	15420
14.45–15.15	II	a	15420	15420	15420
15.15–16.00	II	b			
14.45–15.15	III	a	9765	11915	15315
15.15–16.00	III	b			
16.15–16.45**	II	f	15420	15420	15420
16.15–16.45	IV	a	11705	11705	11705
16.45–17.30	IV	b			
17.45–18.15	V	f	11705	15240	15240
18.15–19.00	V	b			
19.15–19.45	V	c	11705	11705	11705
19.45–20.15	V	a			
23.00–23.45	I	b	7270	15195	15195
23.45–00.30	I	a			
23.00–23.30	VI	e	11705	11705	11705
23.30–24.00	V	f	11705	11705	11705
00.00–00.30	VI	d	11705	11705	11705
01.00–01.45	II	b	5990	9705	11805
01.45–02.15	II	a			
01.00–01.45	VI	b	11705	11705	11705
01.45–02.15	VI	e			
02.15–02.45	VI	c			
02.45–03.15	VI	d			
02.30–03.15	VII	b	5990	9705	11805
03.15–03.45	VII	a			
04.00–04.30	VIII	d	5990	9705	11805

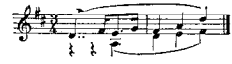
* not Sat/Sun. ** not Sat.

Radio Sweden reserves the right to alter the schedule if necessary.

DX-PRGR: "Sweden calling DX'ers:" **English:** every Tues/Wed as last part of the English half hour at 11.00, 12.30, 14.00, 14.45, 16.15, 19.45, 22.00, 23.30, 01.45, 03.15 – **German:** Wed 10.00, 19.15, 21.30, 23.00 – **French:** Tues 09.30, 16.15, 17.45, 20.30, 21.45, 23.30.

ANN: E: "This is R. Sweden". G: "Hier ist R. Schweden". Fr: "Ici R. Suéde". Sp. & P: "Aqui R. Suécia, Estocolmo". Sw: "Utlandsprogrammet, Sveriges Radio".

INT-SIG: Foreign Sce: The opening notes from Carl Michael Bellman's "Storm och böljor tystna re'n".



V. by QSL-card, folder and/or letter. R. Sweden will appreciate all letters and reports on reception of the transmissions. Prgr. schedules by writing to R. Sweden, Box 955, Stockholm 1.

PUB: Monthly: "Radio Sweden" in six languages: English, German, French, Spanish, Portuguese, Swedish. Weekly: "Röster i Radio-TV". **Tr's: Long & Medium Waves:** Prgr. 1: Marconi, Standard, Telefunken, Thomson Houston. **Prgr. 2:** Standard, Telefunken, Western Electric. **Shortwaves:** AGA Baltic, Marconi – **FM:** Marconi, Philips, Siemens, Rohde & Schwarz.

IBRA RADIO AB (Non-Comm, Non-Gov. Christian)

ADDR: Box 821, Stockholm 1 – **Studios:** The Main studio is Sveavägen 34, Stockholm. **Cable:** "Ibra-Radio" – **L.P:** Pres: Dr. Lewi Pethrus. Dir. Prgr: H. Carlsson.

STATIONS broadc. IBRA prgr's:

R. Bukawu, Congo: Sun (fortnightly) 16.45–17.00 in French on 4808kc 10kW – R. Litoral, Cochabamba, Bolivia: D 18.00–18.15 in Spanish on 6160kc 1.1kW – R. WIVV, Vieques, Puerto Rico: Thurs 00.30–00.45 in **English** on 1370kc 1kW – R. Riquelme, Coquimbo, Chile: Sun in **Spanish** on 960kc 0.3kW – R. Paraguay, Asuncion: Wed 17.15–17.30 in **Spanish** on 1300/601kc 1.5/1kW – R. Kanto, Yokohama: Sun in **Japanese*** on 1380/1450kc 10/3kW.

* The same prgr. is also broadc. over: R. Hokkaido, Hokkaido.

R. Corrientes, Corrientes, Argentina: Every Mon 12-min prgr. in Spanish – R. St. HCJB (The Voice of Andes): Every Wed in Swedish – R. Independencia, Montevideo, Uruguay: Three 15-min. prgr's a week in Spanish – R. WEBH, Chicago, USA: FM-broadcast in Swedish every Sun (R. Sweden) – **PUB:** "IBRA" in a Swedish and an English edition.

SWITZERLAND (Confederation)

L.T: GMT+1 h – **Pr.L:** German dialects, French, Italian, Romanche.

SWISS BROADCASTING CORPORATION (SBC)

(A non profit making Comp) – **FI:** By license fee.

ADDR: Schweizerische Radio- und Fernsehgesellschaft (SRG). Société suisse de radiodiffusion et television (SSR), Societá Svizzera di Radiotelevisione (SSR), Giacomettistrasse 1, 3000 Berne 16. **Cable:** Radif. **Tc:** (031) 44.55.55 – **L.P:** Pres. of the Board of Adm: Dr. A. Guinand. Dir. Gen: M. Bezençon. Dir. Adm. & Dep. Dir. Gen: D. Carl.

Advertisement

radio sweden

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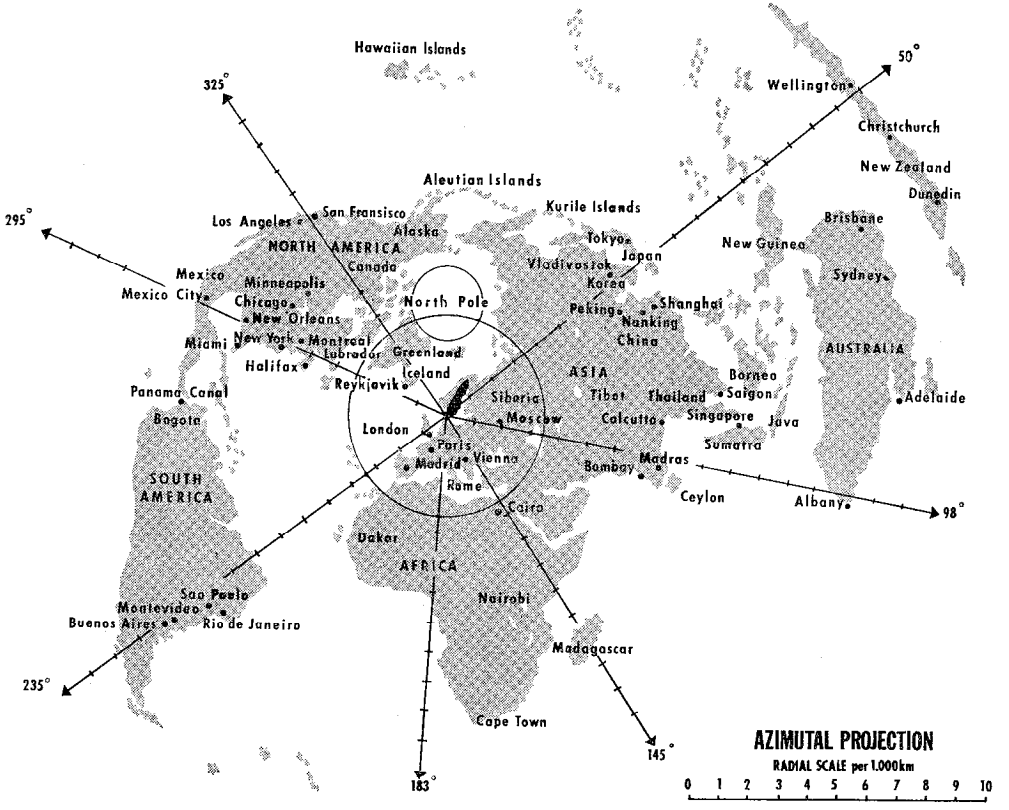
and bringing News, Music and Feature Programmes over Radio Sweden's 100 kW transmitters.

The transcription service

offers a wide range of recorded programmes about Sweden.

The television service

offers films about Sweden in different languages or with an international soundtrack.



Schweizerischer Kurzwellendienst, Service suisse des ondes courtes, Swiss Shortwave Service, Giacomettistrasse 1, 3000 Berne 16. Te: (031) 44.66.44 – **L.P**: Dir: J. Curchod.
Telephonrundspruch, Telediffusion (Wired Broadc.), Giacomettistrasse 1, 3000 Berne 16. Te: (031) 44.14.44 – **L.P**: Dir. Sw-Sce. and Telediff: J. Curchod, Head Telediff: B. Bruni.
According to the new State concession in force (from November 1st, 1964) the Swiss Broadc. Corpo. (SBC) comprises three reg. radio and tv societies, namely:
Programme services in German:
"Radio- und Fernsehgesellschaft der Deutschen und der Raetoromanischen Schweiz" (6 reg. societies, 3 radio studios and 1 TV studio) – **L.P**: Reg. Radio Dir: Dr. F. Ernst, Bâle. – **Radio studios**: R. Berne, Schwarztorstrasse 21, 3000 Berne. Dir: M. Bolliger. R. Bâle, Novarastrasse 2, 4000 Bâle. Dir: Dr. P. Meyer-Gutzwiller. R. Zürich, Brunnenhofstrasse 20, 8000 Zürich. Dir: Dr. G. H. Padel.
Programme services in French:
"Societe de Radiodiffusion et de Television de la Suisse Romande" (2 reg. societies, 2 radio studios, 1 TV studio) – **L.P**: Reg. Radio-Dir: J. P. Méroz, Lausanne – **Radio studios**: R. Genève, 66, Boulevard Carl-Vogt, 1200 Genève. Dir: R. Aubert. R. Lausanne, Maison de la Radio, 1000 Lausanne. Dir: Dr. P. Vallotton.
Programme services in Italian:
"Societa Cooperativa per la Radiotelevisione nella Svizzera Italiana" (1 radio studio, 1 TV studio) – **Radio studio**: Radio-Lugano, 6900 Lugano-Besso. Dir: Dr. S. Molo.

HOME SERVICE

GERMAN:
First Prgr: Sun 06.45–22.15. Mon–Fri 05.15–07.30, 10.00–22.15. Sat 05.15–22.15.

	kc	m	kW		kc	m	kW
Beromünster	529	567.1	150	Coire	1562	192.0	0.5
Basel	1562	192.0	0.5	Sool	1562	192.0	0.5

FM:	ch	Mc	kW/W		ch	Mc	kW/W
Attinghausen	28	95.3	0.1	Ladir	16	91.9	1.125
Brig	23	93.9	0.5	Leuk	20	93.0	0.75
Brusio	2	87.6	6W	Niederhorn	34	97.2	9
Buchserberg	15	91.6	0.25	Pfänder	31	96.3	130W
Celerina	33	96.0	0.75	Poschavio	4	88.2	12W
Davos	29	95.7	0.22	Rigi	13	90.9	30
Dél	27	95.1	0.75	St.Chrischona	12	90.6	18
Ernen	40	99.0	2	Sta. Maria	20	93.0	30W
Geissholz	28	95.4	0.75	Säntis	43	99.9	10
Gotschnagrat	8	89.4	1.2	Sils	29	95.7	36W
Gurtnellen	30	96.0	90W	Sool	26	94.8	0.75
Hornfluh	3	87.9	0.75	Tarasp	27	95.1	0.5
Klewenalp	27	95.0	22.5W	Uelitberg	25	94.6	1.8
				Valzeina	11	90.3	0.75

N, Wrp: 05.15, 06.00(Sun 06.50), 11.30, 18.30, 21.15 – **Current N. items**: 15.00, 17.00, 18.00 – **Comm**: 18.40 – **World Chronicle**: Fri 18.15 – **Review for Swiss abroad**: Mon 21.20 – **"Samtags Rundschau"** (domestic affairs): Sat 12.40 – **Im Auto durch die Schweiz** (for motorists): W 06.30–07.30 – **Symphony**: Tues 19.00.

Second Prgr: D 18.00–21.15, Sun approx. 12.20–21.15. **Local broadc. in Romanche**: Sun 11.40–12.00 prgr. for farmers; every third week: Sun 08.15 (Sermon); Fri 16.00–16.30 (Children's h, prgr's for the women, sick and elderly people); 19.00–19.30 (Current N – Items). **Local broadc. in German**: Sun 17.30–18.00.

FM:	ch	Mc	kW/W		ch	Mc	kW/W
Attinghausen	17	92.1	400W	Ladi.	31	96.4	1.125
Bantiger	21	93.2	60	Leuk	36	97.8	0.75
Brig	8	89.4	0.5	Niederhorn	22	93.6	9
Buchserberg	33	96.9	0.25	Pfänder	36	97.7	130W
Celerina	3	87.9	0.75	Rigi	32	96.6	30
Davos	3	87.9	0.22	St.Chrischona	40	99.0	18
Dèl	38	98.4	0.75	Sta. Maria	6	88.8	30W
Ernen	28	95.4	2	Säntis	28	95.4	10
Geisholz	4	88.2	0.75	Sils	23	93.9	36W
Gotschnagrat	36	97.8	1.2	Sool	40	99.0	0.75
Gurtnellen	15	91.5	90W	Tarasp	15	91.5	0.5
Hornfluh	30	96.0	0.75	Uelitberg	35	97.5	1.8
Klewenalp	11	90.3	22.5W	Valzeina	41	99.3	0.75

FRENCH:
First Prgr: Sun 06.10–22.15. Mon 05.15–13.00, 14.59–22.15. Tues + Thurs 05.15–07.30, 10.00–13.00, 14.59–22.15. Wed 05.15–13.00, 14.59–22.15. Fri 05.15–22.15. Sat 05.15–23.00.
Sottens 764kc 392.6m 150kW – Savièse 1367kc 219.5m 0.5kW

FM: Rel. Sottens:

	ch	Mc	kW		ch	Mc	kW
Hornfluh	38	98.4	0.75	Les Ordons	24	94.2	1.5
La Chaux de Fonde	31	96.3	1.5	Leuk	4	88.2	0.75
				Ravoire	41	99.3	1.2
La Dôle	26	94.8	45	Val de Travers	28	95.5	22W

N, Wrp: 06.15, 11.45, 18.15, 21.30 – **Comm (Current N. items)**: 07.25, 11.00(Sun 11.10), 12.55, 15.00, 16.30, 17.30 (Le Micro dans la vie), 18.00 (La Suisse au micro) (Sun 17.40), 18.25 (Fri: La situation internationale), 21.35(Thurs) – **"Route Libre"** (for motorists): Sat 07.30–11.00 – **Symphony**: Wed 19.30, Thurs 20.30.

Second Prgr: W 18.00–21.30(Fri 22.15, Sat 22.00). Sun 13.00–21.30.

FM:	ch	Mc	kW		ch	Mc	kW
Hornfluh	15	91.5	0.75	Les Ordons	42	99.6	1.5
La Chaux de Fonde	2	87.6	1.5	Leuk	11	90.3	0.75
				Ravoire	29	95.7	1.2
La Dôle	14	91.2	45	Val de Travers	40	98.5	22W

ITALIAN: First Prgr:
Sun 07.00–22.15. Mon–Fri 06.00–07.30(Wed 08.00), 10.00–13.00 14.59–22.15. Sat 06.00–22.15.
Monte Ceneri 557kc 538.6m 50kW.

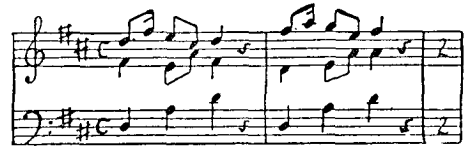
FM:	ch	Mc	kW/W		ch	Mc	kW/W
Brusio	15	91.5	6W	M. S. Salvatore	39	98.7	12
Cardada	34	97.2	0.6	Peccia	4	88.2	0.1
Grono	42	99.6	1	Pizzo Matro	36	97.8	0.75
M. Ceneri	33	96.9	0.75	Poschavio	23	93.9	12W
M. Morello	31	96.3	0.75				

N, Wrp: 06.15(Sun 07.15), 11.30, 18.15, 21.30 – **Comm**: 18.20 – **Current N items**: 12.00, 15.00(W) – **No Stop** (for motorists): Sat 08.30 – **Symphony**: Thurs 19.30.

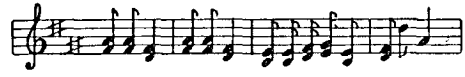
Second Prgr: W 18.00–21.30. Sun 19.00–21.30.

FM:	ch	Mc	kW/W		ch	Mc	kW/W
Cardada	14	91.3	0.6	M. Morello	6	88.8	0.75
Grono	26	94.8	1	M. S. Salvatore	20	93.0	12
M. Ceneri	8	89.4	0.75	Peccia	23	93.9	0.1

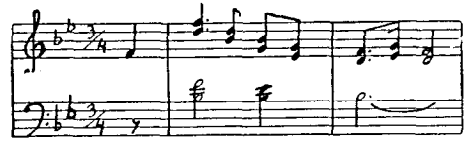
JOINT PRGRS: (Beromünster, Sottens, Monte Ceneri): W 10.00–11.00 (First Prgr), 18.00–19.00 (Second Prgr).
ANN: Swiss National tr's – First Prgr's: Beromünster: "Hier sind der Schweizerische Landessender Beromünster und die deutschschweizerischen UKW-Sender". **Sottens**: "Radiodiffusion suisse, programme romand". **Monte Ceneri**: "Radio della Svizzera italiana, Stazione nazionale di Monte Ceneri, Studio di Lugano".
INT-SIG: Beromünster:
R. Basel: "Z'Basel a myn Rhy". (Music box).



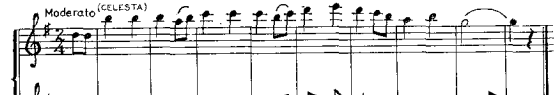
R. Bern: "D'Zyt isch do" (Music box).



R. Zurich: "Chumm Bueb und lueg dis Ländli a". (Celeste)

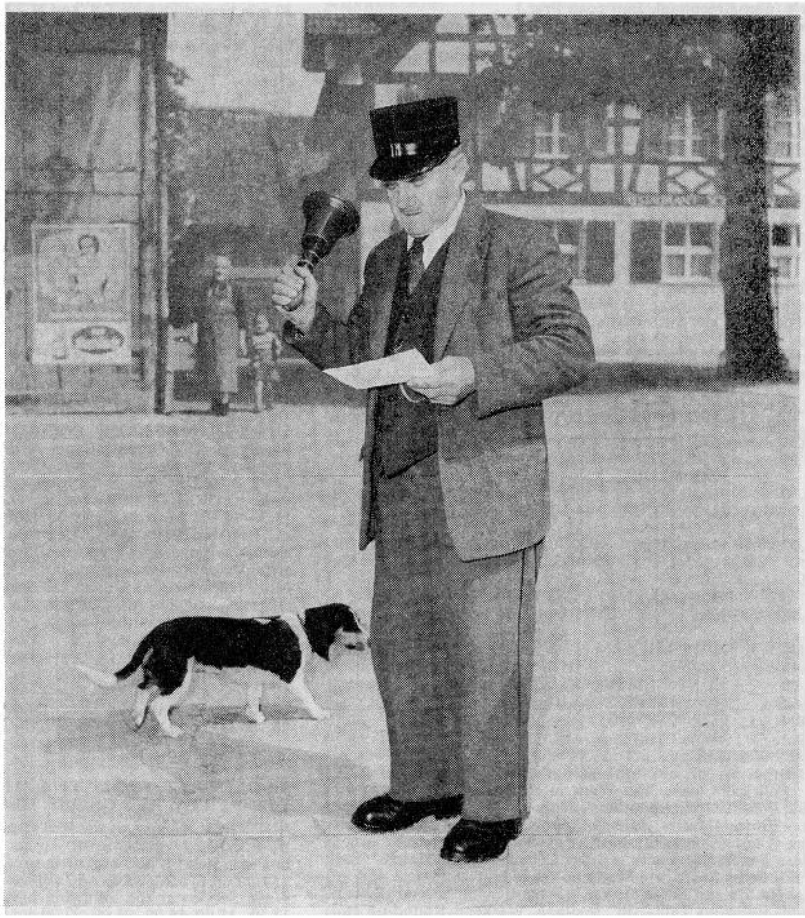


Sottens: Radiodiffusion Suisse, Programme romand: Melody by Achille Christen (Celesta):



Monte Ceneri: "Campane della Chiesa di Pazzalino" (disk/records.

Switzerland Calling



+SBC

Franz Schneider, Switzerland's last town crier, has been informing the citizens of Ramsen, in Northern Switzerland, for the last 35 years. Broadcasting to the world is the

European & Overseas Service of the Swiss Broadcasting Corporation

Daily short-wave transmissions in English, German, French, Italian, Spanish, Portuguese and Arabic: World News and Commentaries – Documentaries and Entertainment – Swiss Folk Music – Classical Concerts – Special Programmes for DX-ers and jazz fans.
Write in for your free copy of „Switzerland Calling", SBC's illustrated programme schedule, published in spring and autumn:
SBC European & Overseas Service, CH 3000 Bern 16, Switzerland

V. Any messages from our listeners and viewers are most welcome. Both QSL-card and letter are used – **PUB:** "Radio+Fernsehen". Schweizer Radio-Zeitung. "Radio TV – Je vois tout". "Radiotivù". Brown Boveri, Switzerland: Mw-tr's: 250kW (Beromünster), 25kW (Monte Ceneri) – Sw-tr's: 2×250kW (Beromünster), 2×250kW (Schwarzenburg). AKG, Austria: Microphones; WSW, Austria: Studio equip.
Wilhelm Franz KG, Germany, delivered EMT studio equipment.

FOREIGN SERVICE

Schwarzenburg: four 100kW tr's (directional for overseas tr's), two 250kW tr's (non-directional, European Prgr.)
Freq's used as of Nov. 7, 1965 (subject to later changes):

kc	m	kc	m	kc	m	kc	m
6080	49.34	9535	31.46	9670	31.02	15305	19.60
6120	49.02	9595	31.27	11715	25.61	17820	16.84
6165	48.66	9655	31.07	11810	25.40	17845	16.81
7220	41.55	9665	31.04	11865	25.28	21520	13.94

EUROPEAN SERVICE
Non-directional on 6165/9535kc, covering Europe & No. Africa; **German–French–Italian:** W 05.45–06.45, 11.00–13.00, 17.30–22.30. Sun 06.45–22.30 – **N: German:** 06.00(W), 06.50(Sun), 11.30, 18.30, 22.00; **French:** 06.15(W), 07.00(Sun), 11.45, 18.15, 21.30; **Italian:** 06.30(W), 07.15(Sun), 13.15, 22.15 – **Esperanto:** 12.00(Mon, Wed), 21.15(Thurs, Sat) – **Prgr's for Swiss Abroad:** W 17.30–18.00, 21.00–21.30 (French: Mon, Thurs; Swiss-German: Tues, Fri; Italian: Wed, Sat).

OVERSEAS SERVICE
Directional to: I=Africa; II=UK/Ireland; III=Spain/Portugal; IV=Japan/China; V=Australia/N.Z./S.E.Asia; VI=India/Pakistan; VII=Near & Middle East; VIII=No. America (East); IX=No. America (West); X=Ce. America; XI=So. America – SA=Prgr's for Swiss Abroad.

Times	kc	Areas	Languages
05.45–06.45(W) 06.45–22.30(Sun)	11715/15305	I	German/French/Italian
07.00–08.30	9670/11865	IV	English/SA
08.45–10.15	11865/15305/ 17820/21520	V	English/SA
10.30–11.30	9665/11865	III	Spanish
11.00–13.00(W)	21520/15305	I/VII	German/French/Italian
11.45–13.15	9665/11865	II	English/SA
13.30–15.00	17845/21520 11865/15305	I VI	English/SA
15.15–16.45	11715	IX	English/SA
15.15–17.15	9655/9665/11865	VII	English/SA/Arabic
17.30–20.30	9595/11810/15305	I	Arabic/French/SA/ English/Portuguese
17.30–22.30(W)	11715	I	German/French/Italian
20.45–22.45	7220/9665	III	Spanish/Portuguese/SA
23.00–01.00	9535/9655/11810	XI	Spanish/SA/Portuguese
01.15–02.45	6080/6120/9535	VIII	English/SA
03.00–04.00	6120/9535/9655	X	Spanish
04.15–05.45	6120	IX	English/SA

PRGR'S IN ENGLISH:
Each tr 60 min W, 90 min Sun – All tr's begin with T.S. and N – Features: **Political Comm, The Week in Switzerland or The Arts in Switzerland:** W – **They Came to Stay:** Mon – **Echoes from Switzerland:** Wed–Sat – **Swiss Gazette** (Life & People): Tues – **Leading Swiss Orchestras** (Classical music): Mon – **Melody Train** (request prgr): Wed – **Jazz Panorama:** Thurs – **Swiss Country Music Makers** (Folk tunes): Fri – **Swiss Shortwave Merry-go-round** (entertainment and inf. for SWLs, HAMs and DX-ers): Sat – **Swiss Sunday Special** (Bells of Switzerland, Religious Talk, SBC Mailbag, Weekend Round-up etc): Sun.

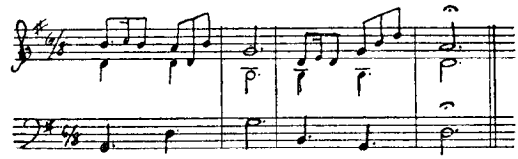
PRGR'S IN SPANISH:
Each tr 60 min – All tr's begin with T.S. and N – Features: **Comentario politico** (Political Comm): Mon–Fri – **La semana en Suiza** (The Week in Sw'ld): Sat – **Ritmos y cansiones de hoy** (Hit Parade): Mon – **Pinceladas de Actualidad** (Topical reports): Tues & Thurs – **Apuntes economicos** (Economic Notes & Talks): Wed – **Novedades de la discoteca** (New records): Thurs – **Ecos de Suiza** (Echoes from Sw'ld): Sat – **Escalas musicales** (Light music): Sun – **Miscelanea semanal** (Weekly Magazine): Mon – **Orcuestas suizas** (Swiss orchestras, classical music): Tues – **Mensajes musicales** (request prgr): Wed & Sat – **Aniversarios** (Swiss historical dates) or **Suizos del mundo Hispanico** (Swiss people returned from Spanish-speaking countries): Thurs – **Musica de camara** (Chamber music): Fri – **Itinerarios de arte** (Arts in Sw'ld) or **Actualidad femenina** (Feminine topics): Sun – **Musica popular** (Swiss folk music): Mon, Thurs, Sun.
In the morning tr to Spain, features are broadcast on the day following the one indicated above.

PRGR'S IN PORTUGUESE:
Each tr 30 min W, 60 min Sun – All tr's begin with T.S. and N – Features: **Actualidade Internacional** (World topics): Mon, Wed, Thurs, Fri – **Economica em Foco** (Economic Notes): Tues – **Revista da Semana** (Weekly Review): Sat – **Lembranças da Suiça** (Request prgr): Sun – **Caixa Postal** (Mailbag): Mon – **Musica Popular Suica** (Swiss Folk Music): Wed – **Arte e Cultura** (Arts in Sw'ld): Thurs – **O Pick-up do Coutinho** (Disk jockey prgr): Fri.

PRGR'S IN ARABIC:
Each tr. 30 min – All tr's begin with T.S. and N – Features: **Light music:** Mon – **Switzerland Today:** Tues – **Mailbag:** Wed – **Arts in Sw'ld:** Thurs – **Entertainment:** Fri – **Musical requests:** Sat – **Internat. Red Cross:** Sun.

PRGR'S. IN FRENCH (for Africa):
30 min beginning with T.S. and N – Features: **Page de la vie du monde** (Polit. Comm): Mon–Fri – **Le Monde cette Semaine:** (Weekly Review): Sat – **Musique de ce temps** (Music of our time): Sun – **Problèmes de ce temps** (Problems of our time): Mon – **Bonsoir l'Afrique** (Topical reports): Tues–Sat

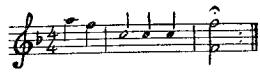
INT-SIG: "Luegit vo Bärg und Tal" (trad. German-Swiss folk song), played on music-box.



V. Correct reports to SBC European & Overseas Service, CH 3000 Bern 16, Switzerland, verified by QSL-card or letter. IRC if airmail reply required – **PUB:** Prgr.schedule "Switzerland Calling" (twice a year, spring and autumn, also in German, French, Spanish, Portuguese and Arabic); report cards and report sheets (airletters) free upon request. No DX-Club, no pennants.

UNITED NATIONS BROADCASTING FROM GENEVA

FI: By the UN Organization – **ADDR:** R. des Nations Unies, Palais des Nations, Geneva. **Cable:** Omnipress. **Te:** 33.10.00. Ext. 2315/2566. **L.P:** Dir. Inf: J. G. Lindström. Chief R. Operations: R. Nivelle – **FOREIGN SCE:** 7443kc 40.31m 25kW: Prgr. in **Russian** Fri 18.30–18.40; Mon 19.20–19.35 UN Prgr. in **Arabic** (to No. Africa, M. East) on 6010/7290/9575kc (via R. Roma). During general Assembly sessions, these prgr's are transmitted daily. Monthly, on Mon at mid-month over Sottens 21.35 (R. Suisse Romande) "Le Tour du Monde des Nations Unies" (30 minutes) then by transcription to 25 different countries which broadc. in French.
ANN: E: "This is the United Nations R. in Geneve". F: "Ici les Nations Unies à Genève".
INT-SIG:



V. by QSL-card or letter.

BROADCAST FROM THE INTERNATIONAL COMMITTEE OF THE RED CROSS, GENEVA

ADDR: Int. Comm. of the Red Cross, 7, Ave. de la Paix, 1211 Geneva 1 – **L.P:** Dir. P. Basset.
In Peace time: ICRC organizes occasional test transmissions (6 times a year) on the frequency of 7210kc 41.61m by courtery of Swiss Short Wave Service at the following hrs: 06.00–07.00, repeated at 11.30–12.30, 15.00–16.00, 21.00–22.00 in **French, German, Italian, English, Spanish, Arabic** – Prgr's consist of ICRC-actualities and tracing service. **In Times of Crisis:** ICRC broadcasts programmes containing information regarding prisoners of war and civilians on the same frequency as well as on others lent by the Swiss authorities, up to 12 hours per day – **ANN: Arabic:** "Huna Geneve". **E:** "This is R. Inter-Red-Cross calling". **F:** "Ici R. Inter-Croix-Rouge". **G:** "Hier R. Inter-Rot-Kreuz". **I:** "Qui R. Inter-Cruce-Rossa". **Sp:** "Aqui R. Inter-Cruz-Roja". **V.** by QSL-card. Recordings accepted.

U.S.S.R.

L.T: See time table – **Pr.L:** Russian, Ukrainian, Byelorussian, Uzbek, Tatar, Kazakh, Azerbaidjanian, Armenian, Georgian, Lithaunian, Moldavian, German, Estonian, Latvian, Chuvash, Tadjik.

STATE COMMITTEE FOR BROADCASTING AND TELEVISION (Gov.)

ADDR: Pjatnitskaja ulitza 25, Moscow. **Cable:** Moskva Radio. **Te:** 33-63-56 – **L.P:** Pres. of Broadc. Committee: N. N. Mesyatsev. 1st Vice-Pres: E. N. Mamedov. Vice-Pres. (TV): G. A. Ivanov. Vice Pres. (Radio): A. A. Rapokhin. Vice Pres (Constr): L. S. Maksakov. Dir. Tec. (Radio): V.F. Zjelesova. Chief Foreign Relations: M. Monusov.

STATIONS:

LONG & MEDIUM WAVES:

Station	kc	m	kW	H of tr.
Moscow I (RSFSR)	151	1987	50	02.00–22.00 (Sat/Sun 23.00)
Petropavlovsk (RSFSR)	155	1935	10	20.00 11.00
Tashkent (Uzbekistan)	164	1829	50	00.00–09.00, 10.00–22.00
Moscow II (RSFSR)	173	1734	500	02.00–01.00 2 prgr.
Chita (RSFSR)	173	1734	20	22.05–16.20
Alma-Ata (Kazakhstan)	182	1648	50	00.00–21.03
Tbilisi (Georgia)	191	1571	50	01.55–10.00, 13.00–21.03
Irkutsk (RSFSR)	200	1500	100	22.00–03.00, 04.00–19.00
Moscow III (RSFSR)	200	1500	100	06.00–08.00, 08.30–13.30
Kiev I (Ukraine)	209	1435	150	01.55–12.00, 13.00–23.00
Baku (Azerbaijan)	218	1376	50	01.55–10.05, 12.55–22.00
Krasnoyarsk (RSFSR)	218	1376	50	23.00–08.00, 09.00–18.00
Tselinograd (Kazakhstan)	227	1322	50	as 182kc
Leningrad I (RSFSR)	236	1271	100	as 151kc (1. prgr.)
Magadan (RSFSR)	236	1271	20	18.00–13.00
Vladivostok (RSFSR)	245	1224	100	23.00–14.00
Dushanbé (Tadjikistan)	254	1181	50	23.52–09.00, 11.00–21.03
Kazan (Tatar ASSR)	254	1181	100	02.00–21.03
Yakutsk (Yakutsk ASSR)	263	1141	10	22.00–01.55, 02.00–16.00
Moscow I (RSFSR)	263	1141	150	02.00–11 00, 12.00–22.00 (Sat/Sun 02.00–22.00)
Novosibirsk (RSFSR)	272	1103	100	23.00–07.00, 09.00–19.00
Minsk II (Byelorussia)	281	1068	100	02.00–12.00, 13.00–22.00
Ulan-Ude (Buryat ASSR)	281	1068	10	22.25–01.30, 03.30–16.30
Khabarovsk (RSFSR)	335	896	150	19.30–10.45
Saratov (RSFSR)	340	882.4	100	02.00–07.00, 16.00–22.00 (2. prgr)
Yuzno-Sakhal. (RSFSR)	360	883	100	19.25–21.45, 01.00–11.30
Yerevan (Armenia)	362	828.7	50	01.55–10.00, 12.50–21.03
Ashkhabad (Turkmenia)	375	800	10	00.55–09.00, 12.00–21.03
Arkhangelsk	380	789	50	20.00–14.00 (4th prgr.)
Kharkov (Ukraine)	385	779	50	15.00–22.00 (2.+3. prgr)
Omsk (RSFSR)	390	769	50	00.00–06.00, 10.00–15.00
Moscow IV (RSFSR)	395	759.5	100	19.00–07.00, 08.00–15.00 (2.+4. prgr)
Tashkent II (Uzbekistan)	400	750	50	00.00–21.03
Minsk II (Byelorussia)	400	750	50	02.00–21.03
Odessa (Ukraine)	548	547	100	03.00 22.00 (2. prgr)
Vladivostok (RSFSR)	548	547	100	08.00–16.00, 21.00–23.00
Volgograd (RSFSR)	557	539	10	
Riga I (Latvia)	575	521.7	100	02.58–12.00, 13.00–22.00
Astrakhan (RSFSR)	593	505	10	23.00–18.00 (2. prgr)
Frunze (Kirghizia)	611	491	25	00.00–17.00
Petrozavodsk (Kar. ASSR)	611	491	100	03.00–10.00, 13.00–22.00
Krasnodar (RSFSR)	611	491	20	
Vladivostok (RSFSR)	629	476.9	100	08.00–15.30, 21.00–22.00
Simferopol (Ukraine)	647	464	100	01.55–12.00, 13.00–21.03
Murmansk (RSFSR)	656	457.3	150	03.00–12.00, 13.00–22.00
Vilnius (Lithaunia)	665	451.1	100	03.55–21.00
Tsjernovtsy (Ukraine)	674	445.1	100	03.00–12.00, 13.45–22.00
UFA (Bashkir ASSR) 2. prgr.	692	433.5	100	03.00–12.00, 14.30–21.00
Donetsk (Ukraine)	710	422.5	150	02.00–11.00, 13.00–21.03
Tallinn (Estonia)	710	422.5	150	03.00–23.00
Chelyabinsk (RSFSR)	737	407.1	10	01.00–12.00, 15.00–20.30
Moscow II (RSFSR) 2. prgr.	737	407.1	20	06.00–12.00, 16.00–20.30
Tselinograd (Kazakhstan)	746	402	20	00.00–21.03
Odessa (Ukraine)	764	392.7	10	01.55–12.00
Kiev II (Ukraine)	782	383.6	100	01.55–12.00, 13.15–15.35
Karaganda (Kazakhstan)	782	383.6	20	00.00–17.00
Leningrad II	800	375	100	03.00–12.00, 13.00–22.00
Dushanbé (Tadjikistan)	800	375	100	09.00–18.30
Kuibyshev (RSFSR) 2. prgr.	809	371	10	02.00–13.00, 15.00–22.00
Gorkij (RSFSR) 2. prgr.	827	363	20	03.00–14.00, 16.00–22.00
Kharkov (Ukraine)	836	358	20	17.00–21.03
Kazan (Tatar ASSR)	845	355	10	03.00–11.00, 13.00–22.00
Yerevan (Armenia)	863	347.6	100	02.00–11.00, 11.50–22.05
Moscow (RSFSR)	872	344	150	04.00–03.00 (2.+3. prgr)
Stavropol (RSFSR)	881	340	20	03.00–12.00, 13.00–21.03
Ushgorod (Ukraine)	890	337.1	50	01.55–12.00, 13.00–23.00
Makhachkala (Dhagestan)	917	327.2	50	03.00–12.00, 13.00–21.00
Lvov (Ukraine)	935	320.9	300	17.00–21.00 1. prgr.
Voronej	944	318	20	
Smolensk (RSFSR)	971	309	150	07.00–16.00 (1st prgr) 16.00–21.30
Yuzhno-Sakhal. (RSFSR)	973	308	20	19.25–21.45, 01.00–13.05
Kishinjov (Moldavia)	998	300.6	100	02.00–11.00, 12.43–00.30
Baku (Azerbajan)	1016	295.3	100	14.00–20.00
Tomsk (RSFSR)	1025	292.7	200	03.00–22.00 (1st prgr)
Tallinn I (Estonia)	1034	290.1	100	02.55–21.03
Tbilisi (Georgia)	1043	287.6	100	01.45–06.00, 13.00–21.03
Dnjepropetrovsk(Ukraine)	1070	280.4	20	03.00–12.00, 13.00–21.03
Perm	1088	275.5	20	01.00–21.03
Vilnius II (Lithuania)	1106	271.2	100	04.00–21.00
Kaliningrad (RSFSR)	1115	269.1	20	02.00–22.00 (1. prgr)
Leningrad III (Vyborg)	1124	266.9	20	03.00–12.00, 13.00–23.00
Moscow II (RSFSR)	1142	262.7	50	03.00–22.00 (2. prgr)
Vladivostok (RSFSR)	1151	260.9	100	08.00–14.30
Kiev (Ukraine)	1169	256.6	150	02.00–15.30 (1. prgr) 15.30–00.30
Kursk (RSFSR)	1214	247.1	20	
Tallinn II (Estonia)	1214	247.1	20	02.55(Sun 03.25)–23.00
Odessa (Ukraine)	1241	241.7	50	16.00–24.00
Khabarovsk (RSFSR)	1250	240	100	21.00–09.30 (2. prgr) 09.30–16.00
Moscow III	1277	234.9	20	04.00–20.00
Kharkov	1322	226.9	100	
Kathla-Järve (Estonia)	1331	225.4	20	02.55(Sun 03.55)–21.03
Pärnu (Estonia)	1331	225.4	20	
Kuldiga (Latvia)	1349	222.4	20	
Madona (Latvia)	1349	222.4	20	03.00–21.03, 21.05–22.00
Valmiera (Latvia)	1349	222.4	20	
Moscow II	1367	219.5		03.00–22.00 (2. prgr)
Kiev III (Ukraine)	1376	218.2	50	16.00–21.00
Kaunas (Lithuania)	1385	216.6	150	05.00–15.00 (3. prgr) 16.00–22.30
Tartu (Estonia)	1403	213.8	20	02.55(Sun 03.25)–21.03
Riga (Latvia)	1421	211.1	10	03.00–22.00
Riga III (Latvia)	1484	202.2	5	03.00–21.03
Tallinn (Estonia)	1493	200.9	50	16.30–00.30
Gomel (Ukraine)	1493	200.9	20	02.00–11.00
Vinnitsa (Ukraine)	1546	194	50	15.30–21.30
Baranovitchi (Byelorussia)	1554	193	20	04.00–21.00

Shortwaves: For R. Moscow and Regional shortwave st's: please refer to the pages: Short Wave Stations of the World.

HOME SERVICES

RADIO MOSCOW:

First Prgr: 02.00–22.00
On 151/236kc: 02.00–12.00, 13.00–22.00 (Sat/Sun 02.00–22.00); **On 263kc:** 02.00–11.00, 12.00–22.00 (Sat/Sun 02.00–22.00); **On 935kc:** 17.00–21.00; **On 971kc:** 07.00–16.00; **On 1024kc:** 03.00–22.00; **In 49m.b.** (5910–6000kc): 02 00–22.00; **In 41m.b.** (7310–7420kc): 02.00–21.00; **In 31m.b.** (9470–9790kc): 02.00–20.50; **In 25m.b.** (11630–12070kc): 03.00–20.15.
N: 02.02, 03.02, 05.00, 09.00(W), 15.00, 19.00, 20.50 – **Press Review:** 04.00, 06.00.

2nd Prgr. ("Majak" Lighthouse): 24 h.
On 173kc: 02.00–01.00; **On 385kc:** 20.00–22.00; **On 395kc:** 19.00–07.00; **On 548/1142kc:** 03.00–22.00; **On 593kc:** 23.00–18.00; **On 693kc:** 03.00–12.00, 14.30–21.00; **On 737kc:** 06.00–12.00, 16.00–20.30; **On 809kc:** 04.00–13.00, 15.00–22.00; **On 827kc:** 03.00–14.00, 16.00–22.00; **On 872kc:** 20.00–03.00; **On 1250kc:** 21.00–09.30; **On 1367kc:** 03.00–23.00.
In 49, 41, 31, 25m.b. (5950–6200, 7100–7350, 9470–9800, 11700–12060 kc): 24 h.
N: every h on the h. followed by comm. press reviews.
Ann: "Govorit Mayak".

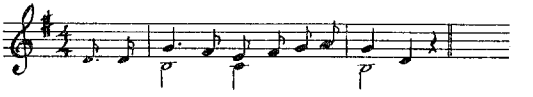
3rd Prgr: 04.00–20.00.
On 200kc: 06.00–08.00, 08.30–13.30; **On 385kc:** 15.00–20.00; **On 872/1277kc:** 04.00–20.00; **On 1385kc:** 04.00–15.00; **On 4055kc:** 13.30–20.00; **In 41m.b.** (7290–7310kc): 08.00–20.00. **In 31, 25m.b.** (9525kc, 11570–11805kc): 04.00–15.00.

***4th Prgr.** (for East Siberia/Far East): 19.00–15.00.
On 155kc: 19.00–08.00; **On 380kc:** 20.00–14.00; **On 395kc:** 08.00–15.00; **In 49m.b.** (6190kc): 19.00–21.40; 10.30–13.00; **In 41, 31m.b.** (7305–7440/9375–9800kc): 19.00–15.00.

***5th Prgr.** (for West Siberia): 23.00–21.00. **On 4430kc:** 23.00–19.00. **In 41m.b.** (7180–7440kc): 23.00–05.30, 15.00–19.00. **In 31m.b:** 23.00–04.00, 15.00–21.00; **In 25m.b.** (11720–12010kc): 03.45–16.00.
* relayed by the local st's in these areas.

ANN: R: "Govorit. (name of station: Moskva, Alma-Ata, Baku, Leningrad, Tashkent etc)". G: (R. Moscow): "Hier ist Moskau mit seiner Sendung für die Sowjetdeutsche Bevölkerung".

INT-SIG: For Home Foreign Service:



PUB: "Radioprogrammy" (weekly) and "Televidenye" (weekly).

REGIONAL STATIONS

R. ALMA-ATA – L.P: Pres: K. N. Shabalayev.
1st Prgr. in Kazakh, Russian, German, Uighurs: 00.00–12.00 on 182/4544/5260/6180/5970/9250/9380/10530kc (01.00–02.00 not on 9250/6180kc), 12.00–21.03 on 182/5260/6180/9380/10530 (only until 19.00)kc **N:** Kazakh: 00.03, 02.00, 07.25, 10.30(W), 14.00(W), 12.30(Sun). Russian: 00.06. 02.07, 07.35, 12.40(Sun), 14.10(W) – **Wrp:** 01.35, 10.38(W) – **Kazakh music:** 04.15, 09.10, 13.00, 13.10(Sat) – **Concert:** 05.15, 07.00, 07.40 – **German:** Tues, Wed, Fri 04.10–04.40, Sat 11.30–12.00 – **Uighurs:** Tues, Thurs, Sat 11.30–12.00. **Rel. R. Moscow:** 00.30(Sun 01.00)–01.30, 03.00–04.15, 05.45–06.15, 12.00–12.30(Sun 11.00–12.00), 14.00–15.00(Sun), 16.00–21.03 (incl. N. from Moscow: 01.00, 15.00, 19.00).
2nd Prgr. "Selskaya Jizn" (for farmers): 01.00–02.00 on 227/9250/6180kc, 12.00–18.00 on 746/4544/5970kc in **Kazakh or Russian** (12.00–15.00 & 15.00–18.00) alternating each day – **N:** 01.00 (Kazakh), 14.50, 17.57 – **ANN:** "Govorit radioystantsia selskaya jizn" – **Local Prgr:** W 13.00–13.30 on 4544kc/69.6Mc – **ANN:** Kazakh: "Almatydan söilep turmys". Russian: "Govorit Alma-Ata". German: "Hier ist Alma-Ata mit seiner Sendung für die deutsche Bevölkerung in Kasachstan" – **INT-SIG:** Kazakh folk song (1st prgr). Electronic music (2nd prgr).

R. ARKHANGELSK in Russian, Saami: 1st Prgr: 02.00–11.00 on 5930kc; 13.00–21.03 on 5015kc. **Own Prgr's:** D 05.14–05.55, 14.45–15.15, 16.00–16.55. **N:** 05.40, 14.45, 16.00 – **Reg. Press review:** 05.15 – Other times rel. R. Moscow.
2nd Prgr: 03.00–20.00 on 66.0Mc (rel. R. Moscow II). **Own Prgr's:** 05.45–07.00, 16.00–20.00.

R. ASHKHABAD – L.P: Pres. Y. Khodshayev.
In Turkmenian, Russian: 00.55–09.00, 13.00–22.00 on 375/4825kc – **Turkmenian:** 01.00–03.00, 03.15–04.00, 04.15–05.40, 07.00–08.00, 13.00–15.00, 16.00–18.00 – **N:** 01.00, 02.30, 13.00, 15.30 – **Rel. R. Moscow:** 03.00–03.15, 05.40–07.00, 08.00–09.00, 15.00–15.30, 18.00–22.00 (incl. N at 03.03, 15.00, 19.00) – **ANN:** Turkmenian "Gepleyär Ashkhabad".

R. BAKU: In Azerbaidjan, Russian, Armenian:
1st Prgr: D 01.55–11.00, 12.30–22.00 on 218/4958kc, 01.55–04.00, 05.00–11.00 also on 9490kc.
N: Azerbaidjan: 02.00, 09.00, 12.30, 15.00, 18.00. **N:** 06.45, 16.10, 18.15 – **Prgr. in Russian:** 09.00–09.30, 13.40–14.05.
Prgr. in Armenian: 07.15–08.00. **N:** (Rel. R. Yerevan) 15.40 – **Rel. R. Moscow:** 03.00–04.00, 04.45–06.00, 09.30–11.00, 19.00–19.30, 20.00–22.00 (incl. N: 03.02, 19.00, 21.03).
2nd Prgr: On 4958kc 14.00–20.00 – **ANN:** Azerbaidjan (Home & Foreign Sce.): "Danishir Baku".

R. CHELYABINSK: In Russian, Bashkirian, German: 1st prgr: On 737kc: 00.55–12.00, 12.30–21.03. **Own prgr's:** 02.00–03.00, 03.30–06.00, 14.00–16.00 – **N: Russian:** 02.00, 14.00. **Bashkirian:** 03.30, 15.30 – **Rel. R. Moscow:** 01.00–02.00, 03.00–03.30, 06.00–12.00, 16.00–21.00 (2nd prgr. incl. N. at 01.00, 03.03, 06.00, 07.00, 08.00, 09.00, 10.00, 11.00, 16.00, 17.00, 18.00, 19.00) – **German:** 01.20–02.00 (N, Prgr).
2nd prgr: 06.00–13.00 on FM only.

R. DUSHANBE – L.P: Pres: V. Sharipov.
In Tadjik, Russian: 1st prgr: On 254/4640kc/71.75Mc: 00.00–07.00, 10.00–21.03. **Own Prgr's:** 00.00–04.00, 04.30–06.00, 10.25–18.00. **N:** (Tadjik) 00.10, 01.00, 03.30, 13.00, 14.00, 17.00. **Concert:** 00.15, 02.30 – **Folklore:** 03.20(Sun), 04.30, 11.25(W), 12.40(Sun) – **Rel. R. Moscow:** 02.00–02.30, 03.00–03.15 (Press), 04.00–04.15, 05.00–06.15, 06.00–07.00, 15.00–15.30, 18.00–21.03.
2nd Prgr: 09.00–13.30 on 800kc/69.6Mc. **N:** 09.05 – **3rd Prgr:** 13.30–17.00 on FM only.
ANN: Tadjik: "Injo Dushanbé". **Russian:** "Govorit Dushanbé".

R. FRUNZE – L.P: Pres. A. U. Botokhanova.
In Kirghize, Russian, German: On 611/4008kc: 00.00–21.03. Own Prgr's: 00.00–01.00, 02.15–03.45, 05.10–11.30, 12.00–12.35, 13.05–17.00 (incl. N. at 01.03, 03.03, 05.00, 10.00(W), 13.00, 17.00(Mon–Fri), 19.00). **German:** Tues 03.45–04.00, Sat 10.40–11.00.

R. KALININGRAD 1st Prgr: 1115kc/66.0Mc: 02.00–21.03. **Own Prgr's:** D 05.11–06.00, W 11.10–11.30, Sun 10.00–11.00, 14.01–15.00 (Tues, Thurs, Sat, Sun), 15.30–17.00(Mon, Wed, Fri). **N:** 05.15, 12.45 (navigation N), 14.30 or 15.30. Other times Rel. R. Moscow II – **2nd Prgr:** 14.00–21.00 on FM only – **Special Prgr. for seamen in Baltic Sea & No. Atlantic** on 1385kc: Sun 00.05–01.40.

R. KIEV – ADDR: Ukrainske Radio, R. Centre, ul. Khreshchatik 24, Kiev, Ukrainian SSR – **L.P:** Pres: N. Skatjko.
In Ukrainian, Russian: 1st Prgr: W 01.55–12.00 (12.00–12.30 on 209kc only), 13.00–22.00, Sun 01.55–22.00 on 209/647/674/710kc; 01.55–12.30 also on 4940/6020kc.
Own prgr's in Ukrainian: 03.45–04.00, 05.00–06.00, 06.30–09.00, 09.15–12.30, 13.00–15.00, 15.30–16.00, 17.05–18.00, 20.00–20.30. **N:** 05.00, 07.30, 08.30, 10.00 (dictation on 209kc only), 13.00, 18.00 – **Wrp:** 03.55, 07.50, 13.10, 18.10. **N. in Russian:** 08.00, 09.45. **Rel. R. Moscow:** 02.00–03.45, 15.00–15.30, 16.00–17.00, 18.20–20.00, 20.30–23.00 (incl. N. 02.03, 15.00, 16.00, 19.00, 21.03, 22.00, 22.55).
2nd Prgr: 13.00–22.00 on 764kc. 13.00–14.00 also on 782kc.
3rd Prgr: (Cultural) 16.00–21.00 on 1070/1241/1376/4940kc. **N:** 17.15 – **Special Prgr. for Students:** 15.00–16.00 on 4940/6020kc (Until 15.35 also on 782kc). **L.L:** 15.00–15.35 English (Sat), German (Thurs) – **ANN:** (Home & Foreign Sce.) "Hovorit Kiyiv".

R. KISHINEV – L.P: Pres: I. Dobanda.
In Moldavian, Russian: 03.00–21.03 on 998kc. **Own Prgr's:** 03.15–04.00, 04.30–06.00, 07.30–11.00, 12.44–14.00, 17.00–19.00.
R. Moscow: 04.00–04.30, 14.00–17.00 (incl. N. at 04.00, 15.00) – **ANN:** "Vorbeste Chisinau" (Moldavian), "Govorit Kishinev".

R. LENINGRAD – In Russian:
1st Prgr: 02.00–12.00, 13.00–22.00 on 800/11700kc+FM.
2nd Prgr: 02.57–12.00, 13.00–23.00 on 1124kc+FM. **Own prgrs:** 03.30–04.00 (also on 800kc), 05.10–06.00. **N:** 03.30. **Wrp:** 02.57, 03.45, 05.15 – Other times rel. R. Moscow.
Special Prgr. (for seamen in Baltic Sea & No. Atlantic) fortnightly: Fri/Sat 23.55–01.55 on 800kc. Sat 08.00–09.00 in 25, 19 m.b.

R. MINSK (in Bielorussian): HOME SCE: 1st Prgr: On 281kc: 02.00–12.00, 13.00–23.00. **Own Prgr's:** 03.30–04.00, 04.15–06.00, 06.00–08.00, 08.30–09.00, 10.00–12.00(W), 13.00–15.00, 15.30–18.00, 18.00–19.00(W), 19.30–20.00. **N:** 03.35, 05.00, 06.00, 10.00*(W), 13.00, 17.30 – **Rel. R. Moscow:** 02.00–03.30, 04.00–04.15, 08.00–08.30, 09.00–10.00, 20.00–23.00 (incl. N. at 02.03, 08.00, 21.03, 22.00, 22.55) –
2nd Prgr: On 400kc: 02.00–12.00, 12.30–22.00 (rel. R. Moscow exc. 09.00–10.00, 20.00–21.00 when own prgr's). *=281kc only.
ANN: (Bielorussian) "Havoryts Minsk".

R. RIGA – ADDR: Latvijas Radioraidijumu un televizijas Komiteja, P.O. Box 266, Riga. **Cable:** "Latradio". **Home Sce. in Latvian, Russian:**
1st Prgr: On 575/1349kc+FM: 03.00–22.00(Sat/Sun 23.00), fram 21.03 also an 1421kc. **N. in Latvian:** 03.17, 05,00, 07.00(W), 09.00(W), 10.00 (W), 13.00(W), 15.00(W), 15.00(W), 18.00, 20.50. – **Rel. R. Moscow:** 03.00-03.15(N), 04.00-04.10(N), W. 05.45-06.15 (Sun 06.00-07.00), W 08.00-09.00, Mon-Fri 11.00(Mon/Wed/Fri 11.30)–13.00.
2nd Prgr: On 1421/1484kc: 03.00–21.03. **On 1484kc+FM:** 21.03–22.00 (rel R Moscow).
ANN: Latvian "Runa Riga" – **PUB:** "Rigas Vilni" (weekly).

R. TALLINN – ADDR: Eesti Raadio ja Televisioon, Postkast 402, Tallinn. **Te:** 1201. **Cable:** "Estradio" – **L.P:** Pres: E. Jaanimägi.
In Estonian, Russian: 1st Prgr. in Estonian: 02.55(Sun 02.25)–21.03, 02.55–07.35, 09.30–16.00, 16.30–21.05 on 1034/6085kc; 02.55–14.00, 15.00–21.05 also on 1331/1403kc+FM.
N: 03.05(W), 04.30(W), 05.00(exc. Mon), 07.00(W), 10.00(W), 12.00 (W), 13.00(W), 14.00, 15.00, 16.30, 18.00, 20.00 – **Rel. R. Moscow:** 04.00 (Press), 09.00–10.00(exc. 1034), 11.00–12.00, 20.30–21.00 (concert) – **Estonian on 1034kc only:** 09.30–10.00 (concert), 14.00–15.00 (N) – **2nd prgr. in Estonian:** 03.00–23.00 on FM only.
3rd Prgr. in Russian: Rel. R. Moscow: 03.00–14.30 on 710kc, 16.00–23.00 on 1214kc (incl. N. at 03.03, 05.00, 10.00(W), 13.00, 17.00(Mon–Fri), 19.00, 21.03, 22.00(W), 22.55) – **Own Prgr's in Russian:** on 710/1332/1403kc: 05.45–06.00, 06.15–06.45(Fri), 14.00–15.00 (**N.** 14.00), Sun 08.30–10.00 – **ANN:** "Siin Tallinn" (Estonian) – **PUB:** "Raadioleht" (weekly).

R. TASHKENT: ADDR: Uzbek Radio, ul. Khorezmskaya 49, Tashkent – **L.P:** Pres: U. Y. Ibragimov.
In Uzbek, Tadjik, Russian, Uighur, Kazakh, Tatar:
1st Prgr: 00.00–09.00, 10.00–18.00 (18.00–20.00 rel. Moscow) on 164/5925kc – **N: Uzbek:** 00.03, 02.10, 07.50, 13.00, 17.00. **Kazakh** 15.50. **Tadjik** 03.50, 13.50. **Tatar:** Thurs, Sun 03.55 – **Prgr. in Uighur:** 14.30–15.00, 15.30–16.00 – **Folk music:** Karakalpak (Tues), Kazakh (Wed), Tatar (Mon, Thurs) all at 13.20–13.50 – **N.** (from R. Moscow): 01.00, 02.00, 03.00, 04.00, 05.00, 06.00, 09.00, 15.00, 18.00(W) –
2nd Prgr. (in Uzbek, Tadjik, Russian) on 400kc: 03.15–03.30, 13.00–16.00. **N:** 14.00 – **Prgr. in Tadjik:** 15.00–15.30.
ANN: Uzbek: "Tashkentdan gapiramis" – **INT-SIG:** see Foreign Sce.

R. TBILISI – L.P: Pres: P. Yu Shamotava.
In Georgian, Russian, Adshar, Osset: On 191/5040kc: 01.58–10.00, 14.00–21.03 – **Own Prgr's:** 02.00–03.00, 03.30–04.00, 04.20–10.00, 14.00–15.00, 16.00–20.00 – **N** (Grusian): 02.03, 05.00, 14.00, 16.00, 19.35 – **Prgr. in Russian:** 03.30–04.00, 14.30–15.00 – Other times rel. R. Moscow – **ANN:** Georgian: "Laparakops Tbilissi".

R. TSELINOGRAD (Kazakhstan).
Home Sce. in Russian, Kazakh, German on 227/782kc: 00.00–21.03. Own prgr's: D 01.45–02.00 (N, Press review), 02.15–03.00, 12.00–14.00 (N, prgr) – **German:** Fri 12.00–12.30 (N prgr) – Other times rel. Alma-Ata – **ANN:** (G): "Hier ist Zelinograd. Hören Sie unsere Sendung für die deutsche Bevölkerung der Neulandregion!"

R. VILNIUS
ADDR: Lietuvas TSR Radijas, ul. Kanarskio 49, Vilnius.
1st Prgr. (Lifhuanian): On 665kc: 03.55–21.00. **N:** 04.00, 09.50, 14.00, 18.00, 20.50.

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TIMES AND WAVELENGTHS MAY BE FOUND ON PAGE 144 IN THIS HANDBOOK

2nd Prgr. in Lithuanian, Polish, Russian: On 1106/1554kc: 04.00–21.00. **N:** 14.00, 19.30 – **Polish:** 18.30–19.00 – **Russian:** 16.00–16.40.
Special Prgr's in Lithuanian, Russian (bilingual) for seamen in Baltic Sea, Atlantic: Sun 23.00–00.00 on 1106/665kc; Mon 20.00–21.00 on 665kc; Tues 00.05–01.05 on 1385kc – **ANN:** Lithuanian: "Kalba Vinius". Polish: "Tu Vilnius".

R. YEREVAN – ADDR: Armenian Radio, Mravian st. 5, Yerevan 25. **Te:** 25272 – **L.P:** Dir. Gen: H. Ayvazian. Dir. Tec: A. Blkyan.
1st Prgr. in Armenian, Azerbaidjan, Russian:
02.00–11.00, 12.58–22.00 (Sat/Sun 02.00–22.00). 02.00–11.00 on 362/863*/4040/5740*/7270* kc + FM, 12.58 (Sat/Sun 11.00)–22.00 on 362/4040kc + FM.
*) until 10.30 only – **N. in Armenian:** 03.20, 08.10, 10.30, 13.00, 15.55, 18.30, 19.53 – **Azerbaidjan:** 14.25–14.30(N), 03.30–03.50 (Thurs) – **Russian:** 14.10–14.20(N), 15.25–15.45(Wed).
Rel. R. Moscow: 02.00, 03.00, 04.00, 05.00, 05.45, 08.00, 09.00, 15.00, 19.00, 20.00 (N & Press Reviews).
2nd Prgr. in Armenian, Azerbaidjan, Kurdish, Russian: 10.30–14.20 on 683/5740/7270kc, 16.30–18.55 on 5740kc – **Armenian:** 10.30–12.10, 16.30–18.55, N. 16.31 – **Azerbaidjan:** 13.10–13.50 – **Kurdish:** 12.10–13.10, 13.50–14.20. **N:** 12.10, 13,50 – **Russian:** Sat 12.00–12.10.
3rd Prgr. in Armenian: (cultural): 11.00–12.50 on 4040kc + FM, 13.00–16.30 on FM only. – **ANN:** "Khosum e Yerevan" – **INT-SIG:** Ringing melody from an Armenian folklore song "Garouna" – (Spring) by Komitas – **V.** by QSL-card.

BROADCASTS FROM THE SOVIET COMMITTEE FOR CULTURAL RELATIONS with Fellowcountry men abroad.
ADDR: Sovietskiy komitet po kulturnym svazyam s sootechestvennikami za rubejom, Bolshoj Kharitoneyeskij pereulok 10, Moscow K-62. **Te:** K 4-60-16 – **L.P:** Pres. of the Comm: V. M. Malyayev – **Branch in the German Democratic Republic:** Postal Addr: 108, Berlin 8 – **L.P:** Pres: J. J. Soldatov – **D.Prgr:** "Radiostantsiya Rodina": **To We. Europe:** 06.00–07.00 on 1385kc and in 31 m.b; 14.00–15.00 in 25, 19 m.b; 18.00–19.00 in 31 m.b; 20.00–21.00 on 201m and in 49, 31 m.b. **To America:** 23.30–00.30 on 1169/1493kc and in 49, 41, 31 m.b; 02.00–03.00 in 49, 41, 31 m.b. **Russian:** 06.00–06.30, 14.00–15.00, 18.00–18.30, 20.00–21.00, 23.30–00.30, 02.00–02.30. (Prgr's prepared by different towns: Leningrad, Rostov, Gorkiy, Krasnodar, Barnaul, Volgograd, Stavropol, Voronesh, Irkutsk, etc.) Own prgr's: 14.00–15.00, 20.00–21.00, 23.30–00.30. **National Languages** (Ukrainian, Byelorussian, Georgian, Armenian, Azerbaijan, Lithuanian, Latvian, Estonian and 15 further languages): 06.30–07.00, 18.30–19.00, 02.30–03.00 – **V.** by letter. Re. to R. Stn. Rodina, Moscow R. Moscow – **ANN:** "Govorit Radiostantsiya Rodina" – **PUB:** Prgr. schedule is reprinted in the journal "Golos Rodiny" (=Voice of the Homeland).

FOREIGN SERVICES

RADIO MOSCOW

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*Sun & Thurs only.

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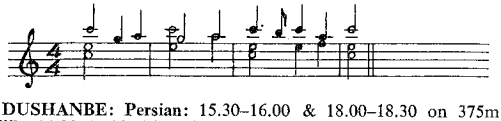
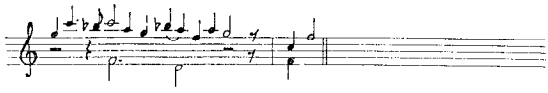
* to March 1st 1966. ** from March 1st 1966.

R. BAKU: Azerbaijan: 04.00–04.30 in 49, 31m.b, 13.30–14.00 in 49, 31m.b – **Arabic:** 15.30–16.00, 16.30–17.00 in 49, 31m.b – **Persian:** 04.30–04.45 in 49, 31m.b, 13.00–13.30 in 49, 31 m.b, 14.00–15.00 in 49, 31 m.b – **Turkish:** 15.00–15.30, 16.00–16.30 in 49, 31 m.b, 17.30–18.20 in 31 m.b.
ANN: Azerbaijan: "Danishir Baku". Arabic: "Huna Baku". Persian: "Inja Baku". Turkish: "Burasi Baku" – **INT-SIG:**



R. DUSHANBE: Persian: 15.30–16.00 & 18.00–18.30 on 375m – **Tadjik:** 14.00–15.00, 16.00–16.30 & 17.00–17.30 on 375m.
R. EREVAN: Armenian (for Armenians abroad): To Near & Middle East: 15.30–16.25 & 19.30–21.05 on 863/7270kc. To Europe: 08.00–09.00(Sun) on 7110/9580/9590/9785/11790kc. To the Americas: Sat/Sun: 20.30–21.30 on 6150/7185/7200/9540kc.
Arabic: 14.20–15.00 & 19.00–19.30 on 863/7270kc – **ANN:** "Khosum e Yerevan" (This is the Voice of Armenia) – **V.** by QSL-card. Re. in E, F, Arabic, Armenian, Russian. Prgr. schedule free.
R. KIEV: Ukrainian: To Europe: 16.30–17.00 in 49, 41, 31*, 25** m.b, 18.00–18.30 in 49, 41, 31 m.b, 19.00–19.30 in 49, 31 m.b, 20.30–21.00 in 49, 41 m.b. To No. America: 22.30–23.00 in 41, 31 m.b, 23.30–24.00 in 49, 41, 31 m.b, 00.30–01.00 in 41, 31 m.b, 03.30–04.00 & 04.30–05.00 in 41, 31 m.b – **ANN:** "Hovoryt Kiev". E: "This is R. Kiev" – **V.** by letter. (See last min. information)
R. MINSK: Bielorussian: 18.30–19.00 & 21.30–22.00 in 41 m.b – **ANN:** "Havoryts Minsk".
R. RIGA: Latvian: 08.30–09.15(Sun) on 522m, 19.30–20.00, 21.30 (Mon 21.15)–22.00 on 522, 222, 211m – **Swedish:** 08.00–08.30(Sun) on 522m, 20.20–20.50 (Tues, Thurs, Sat) on 522m, 21.30–22.00 (Wed, Fri, Sun) on 522, 222, 211m.
R. TALLIN – ADDR: Eesti Radio, P.O. Box 402, Tallinn.
Cable: "Estradio" – **Estonian:** 21.05–21.40 (Tues, Thurs, Sat) on 290, 49m.b – **Finnish:** 08.00–09.15(Sun), 09.15–09.30(Sun), 16.00–16.30(W) on 290m – **Swedish:** 21.05–21.40(Mon, Wed, Fri, Sun) on 290, 49m.b – **ANN:** Finnish: "Täällä Tallinna". Swedish: "Här är Tallinn" – **V.** by QSL-card and letter.
R. VILNIUS – ADDR: Lietuvas TSR Radijas, ul. Kanarskio 49, Vilnius – **Lithuanian:** 22.30–23.30 to America in 51, 50, 42, 41 & 40 m.b.'s – **English:** 22.30–23.00(Sun & Fri) in 51, 50, 42, 41, 40m.b., 22.00–22.30(Sun & Fri) on 665/1106/1554kc. – **V.** by QSL-card.
R. TASHKENT in 31, 25 m.b. (9600, 11925kc): English: 12.00–12.30, 14.00–14.30 – **Hindi:** 13.00–13.30, 15.00–15.30 – **Persian:** 16.00–16.30, 17.30–18.00 – **Urdu:** 12.30–13.00, 13.30–14.00 – **Uzbekh:** 16.30–17.00 – **ANN:** "This is Tashkent Calling" – **INT-SIG:** played on Chang (Uzbek nat. instrument), Violin and Cello.



V. by QSL-card – **Pub:** Prgr. schedule free.
T. TBILISI: English & Grusian: 13.45–14.15 in 49 m.b.
AKG, Austria: Microphones – WSW, Austria: Studio equipm.

VATICAN STATE

L.T: GMT+1 h.
VATICAN RADIO (Rel.)
ADDR: Vatican Radio, Vatican City. **Cable:** Vatican Radio. **Te:** 698.
L.P: Dir. Gen: Rev. Prof. Antonio Stefanizzi S. J. Dir. Prgr: Rev. F. Ramirez S. J. Dir. Tec: Dott. Ing. Tullio Gorio.
STATIONS: Medium Waves:
HV2 787kc 383.6m 2kW – HV100 1529kc 196.2m 100kW.
FM: 93.3, 96.3Mc 0.5kW.
Short Waves: 25/50/100kW.

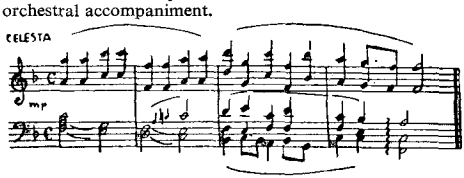
kc	m	kc	m	kc	m	kc	m
5985	50.13	9645	31.10	11740	25.55	15120	19.84
6190	48.47	9670	31.02	11760	25.51	17840	16.82
7250	41.38	9675	31.01	11785	25.46	21485	13.96
7295	41.12	9690	30.96	11875	25.27		
9615	31.20	11735	25.56	15115	19.85		

PROGRAM SCHEDULE: (October 65–April 66).
The wavelengths are subject to change with seasonal variation, or to avoid interference.

TO EUROPE			kc
Albanian:	20.30	Tues, Thurs, Sat	6190, 7250, 1529
Bulgarian:	17.30	Tues, Thurs	6190, 7250, 9645, 1529
	11.10	Sun	7250, 9645, 11740, 1529
Croat:	17.45	Sun, Mon, Tues, Wed, Fri	6190, 7250, 1529
Czech:	12.30	D	7250, 9645, 11740, 1529
	19.30	D	6190, 7250, 9645, 1529
English:	15.00	D	7250, 9645, 11740, 1529
	18.15	D	6190, 7250, 9645, 1529
Estonian:	15.45	Sun	7250, 9645, 11740, 1529
French:	11.45	D	7250, 9645, 11740, 1529
	14.30	D	7250, 9645, 11740, 1529
	19.15	D	6190, 7250, 9645, 1529
German:	12.45	D	7250, 9645, 11740, 1529
	14.45	D	7250, 9645, 11740, 1529
	19.45	D	6190, 7250, 9645, 1529
Hungarian:	13.00	D	7250, 9645, 11740, 1529
	21.00	D	6190, 7250, 9645, 1529
Italian:	13.30	D	6190, 7250, 9645, 11740, 1529
	16.00	Fri	6190, 7250, 9645, 1529
	18.30	D	6190, 7250, 9645, 1529
	21.30	D	1529
Latin:	11.30	Tues, Thurs, Sat	7250, 9645, 11740, 1529
	16.30	Tues, Thurs, Sat	7250, 9645, 11740, 1529
	21.15	Tues, Thurs, Sat	6190, 7250, 9645, 1529
	20.00	D(H. Rosary)	6190, 7250, 9645, 11740, 1529
Latvian:	08.00	Sun	9645, 11740
	17.30	Mon, Fri	6190, 7250, 9645, 1529
Lithuanian:	07.30	Sun	9645, 11740
	17.15	D	6190, 7250, 9645, 1529

			kc
Polish:	12.15	D	7250, 9645, 11740, 1529
	15.15	D	7250, 9645, 11740, 1529
	19.00	D	6190, 7250, 9645, 1529
Portuguese:	15.30	D	7250, 9645, 11740, 1529
	20.30	D	7295, 9690
Rumanian:	17.30	Sun, Wed, Sat	6190, 7250, 9645, 1529
Russian:	14.00	D	9645, 11740, 15120, 1529
	18.00	D	6190, 7250, 9645, 1529
Slovak:	12.00	D	7250, 9645, 11740, 1529
	20.15	D	6190, 7250, 9645, 1529
Slovene:	17.45	Thurs, Sat	6190, 7250, 1529
	20.30	Mon, Fri	6190, 7250, 1529
	10.50	Sun	7250, 9645, 1529
Spanish:	14.15	D	7250, 9645, 11740, 1529
	20.45	D	6190, 7250, 9645, 1529
Swedish, Danish, Norwegian:			
	20.30	Wed, Sun	7250, 9645, 1529
Ukrainian:	17.00	Sun, Tues, Thurs, Fri	6190, 7250, 9645, 1529
White Ruth:	07.15	Sun	9645, 11740
	17.00	Mon, Wed, Sat	6190, 7250, 9645, 1529
Concert:	19.30	Sun	6190, 7250, 9645, 11740, 1529
	12.30	Mon	7250, 9645, 11740, 1529
	16.00	Thurs	6190, 7250, 9645, 1529
Liturgy:			
Latin:	08.30	Sun, Holidays	7250, 9645, 11740, 15120
Oriental:	09.30	Sun, Holidays	7250, 9645, 11740, 15120, 1529
TO AFRICA			
Arabic:	16.45	D	9645, 11740, 11875, 1529
English:	10.00	W	17840, 21485
	10.20	W	17840, 21485
Ethiopian:	16.30	Mon, Wed, Fri	11875, 15120, 1529
French:	10.50	W	17840, 21485
	11.10	W	17840, 21485
Portuguese:	10.35	W	17840, 21485
Swahili:	16.15	D	11875, 15120
TO AMERICA			
Portuguese:	23.00	D	9645, 11740
Spanish:	23.30	D	9645, 11740
	00.00	D	5985, 7250, 9615
	00.30	D	5985, 6250, 9645
English:	00.50	D (for USA)	5985, 7250, 9645
French:	01.10	D	5985, 7250, 9645
TO ASIA * for India, ** Philippines			
Arabic:	16.45	D	9645, 11740, 11875, 1529
Chinese:	22.30	Tues, Thurs, Sat	9670, 11735
English:	15.50	W	11740, 15120
	22.30	Mon, Wed, Fri	9670, 11735
Japanese:	21.45	Mon, Wed, Fri	9670, 11760
TO AUSTRALIA/NEW ZEALAND			
English:	11.30	D	11785, 15115
	22.00	D	9675, 11735

OPENING SIG: The Bells of St. Peter's.
ANN: "Laudetur Jesus Christus. Praised be Jesus Christ. This is Vatican Radio".
INT-SIG: Carillon Melody "Christus Vincit" executed on the celeste with orchestral accompaniment.



V. by QSL-card or letter. Recordings accepted. **PUB**: Prgr. sched. free on request.
Brown, Boveri, Switzerland: 2×10kW sw-tr's one 135kW mw-tr. Telefunken A.G. Germany: 2×100kW sw-tr's studio equip (recorders).

YUGOSLAVIA

L.T: GMT+1 h – **Pr.L**: Serbo-Croat, Slovenian, Macedonian.
JUGOSLOVENSKA RADIOTELEVIZIJA (Gov.)
FI: By license payments – **AD**: Beograd 1st Prgr: W 120 min, Sun 73 min. 2nd Prgr: W 15 min, Sun 25 min – Zagreb: 1st Prgr: D 70 min. 2nd Prgr: W 30 min, Sun 150 min – Ljubljana: D 39 min – Sarajevo: D 76 min – Skopje: D 76 min – Titograd: D 40 min – Novi Sad: 1st Prgr: D 110 min. 2nd Prgr: D 30 min – Pristina: D 40 min.
ADDR: 70 Borisa Kidrica, Belgrade. **Te**: 43-677. **Cable**: Jugoslovenska radiotelevizija Beograd. **Telex**: 01-259 jurate beograd.
L.P: **Radiotelevision Yugoslave**: Pres. Adm. Committee: I. Bojanic. Secr. Gen: Dr. I. Pustisek. Chief Foreign Relations: Mrs. O. Vojvodic. Commission Political Broadc: Pres: M. Markovic. Secr: Dr. I. Pustisek. Commission Cultural Broadc: Pres: B. Bozovic. Secr: Mrs. O. Vojvodic. Commission Musical Prgr's: Pres: S. Baric. Secr: Mrs. L. Frajt. Tech. Commission: Pres: Eng. S. Rojec. Jur. Commission: Pres: L. Dimitrovski. Secr: P. Tipsarevic. Commission Formation of Personnel: Pres: B. Nikolic. Secr: P. Tipsarevic. Commission For. Rel: Pres: S. Sabatka. Secr: Mrs. O. Vojvodic. Commission Economic and Fin. Sce: Pres: S. Stefanovic. Secr: Mrs. Lj. Stosic. Board of Radio Prgr: Pres: B. Zlobicki. Secr: I. Pustisek. **Radiotelevision Belgrade**: Dir. Gen: Z. Vukovic. Dir. Tec: Eng. R. Zizic. **Radiotelevision Zagreb**: Dir. Gen: Vacant. Dir. Tec: V. Trs. **Radiotelevision Ljubljana**: Dir. Gen: B. Mikos. Dir. Tec: Eng. S. Pernus. **Radiotelevision Skopje**: Dir. Gen: D. Tozija. Dir. Tec: T. Dzartov. **R. Sarajevo**: Dir. Gen: V. Savic. Dir. Tec: Eng. F. Lastavec. **R. Titograd**: Dir. Gen: M. Perovic. Dir. Tec. Eng. L. Kosovic. **R. Novi Sad**: Dir: S. Sabatka. Dir. Tec: Eng. I. Djukic. **R. Pristina**: Dir: J. Bajrai. Dir. Tec: Eng. I. Lozovoj.

MEDIUM WAVES: Main st's in fat types.

	kc	m	kW
SERBIA			
Belgrade I	683	439.0	200
Nis	926	324.0	10
Novi Sad I	1268	236.6	100
Pristina	1412	212.4	100
Belgrade II	1484	202.2	2
Svetozarevo	1484	202.2	1 5
Novi Sad II	1484	202.2	2
CROATIA			
Vukovar	881	340.5	0 25
Zagreb I	1133	264.7	135
Rijeka I	1133	264.7	20
Split I	1133	264.7	50
Zadar	1133	264.7	2
Gospić	1412	212.4	20
Osijek	1412	212.4	2
Split II	1412	212.4	2
Zagreb II	1484	202.2	2
Dakovo	1484	202.2	0.05
Dubrovnik	1484	202.2	2
Knin	1484	202.2	0.05
Petrinja	1484	202.2	0.05
Porec	1484	202.2	0.05
Pula	1484	202.2	2
Rijeka II	1484	202.2	2
Sisak	1484	202.2	2
Varazdin	1484	202.2	0.05
Buje	1594	188	2
Karlovac	1594	188	0.6
Krapina-Zabok	1594	188	0.05
Rovinj	1594	188	0.05
Vinkovci	1594	188	0.05
SLOVENIA			
Ljubljana I	917	327.1	135
Koper	1169	256.6	6
Radlje	1241	241.7	0.05
Maribor	1412	212.4	5
Ljubljana II	1484	202.2	2
Celje	1484	202.2	2
Crnomelj	1484	202.2	2
MurskaSobota	1484	202.2	1
Tolmin	1484	202.2	0.05
Trzic	1484	202.2	0.05
Slovenj Gradec	1502	199.7	0.05
Ptuj	1511	198.5	0.05
Brezice	1562	192.1	0.05
Kobarid	1594	188	0.05
BOSNIA/HERZEGOVINA			
Sarajevo	611	491	100
Brcko	1330	225.4	0.1
Tuzla	1484	202.2	2
MACEDONIA			
Skopje	809	371	135
Bitola	1484	202.2	2
Debar	1484	202.2	0.05
Gevgelija	1484	202.2	0.05
Gostivar	1484	202.2	2
Kavadarci	1484	202.2	0.05
Kicevo	1484	202.2	0.15
Kocani	1484	202.2	0.15
Ohrid	1484	202.2	2
Prilep	1484	202.2	0.035
Resen	1484	202.2	0.15
Strumica	1484	202.2	0.05
Stip	1484	202.2	0.05
Titov Veles	1484	202.2	0.1
MONTENEGRO			
Titograd	881	341	100

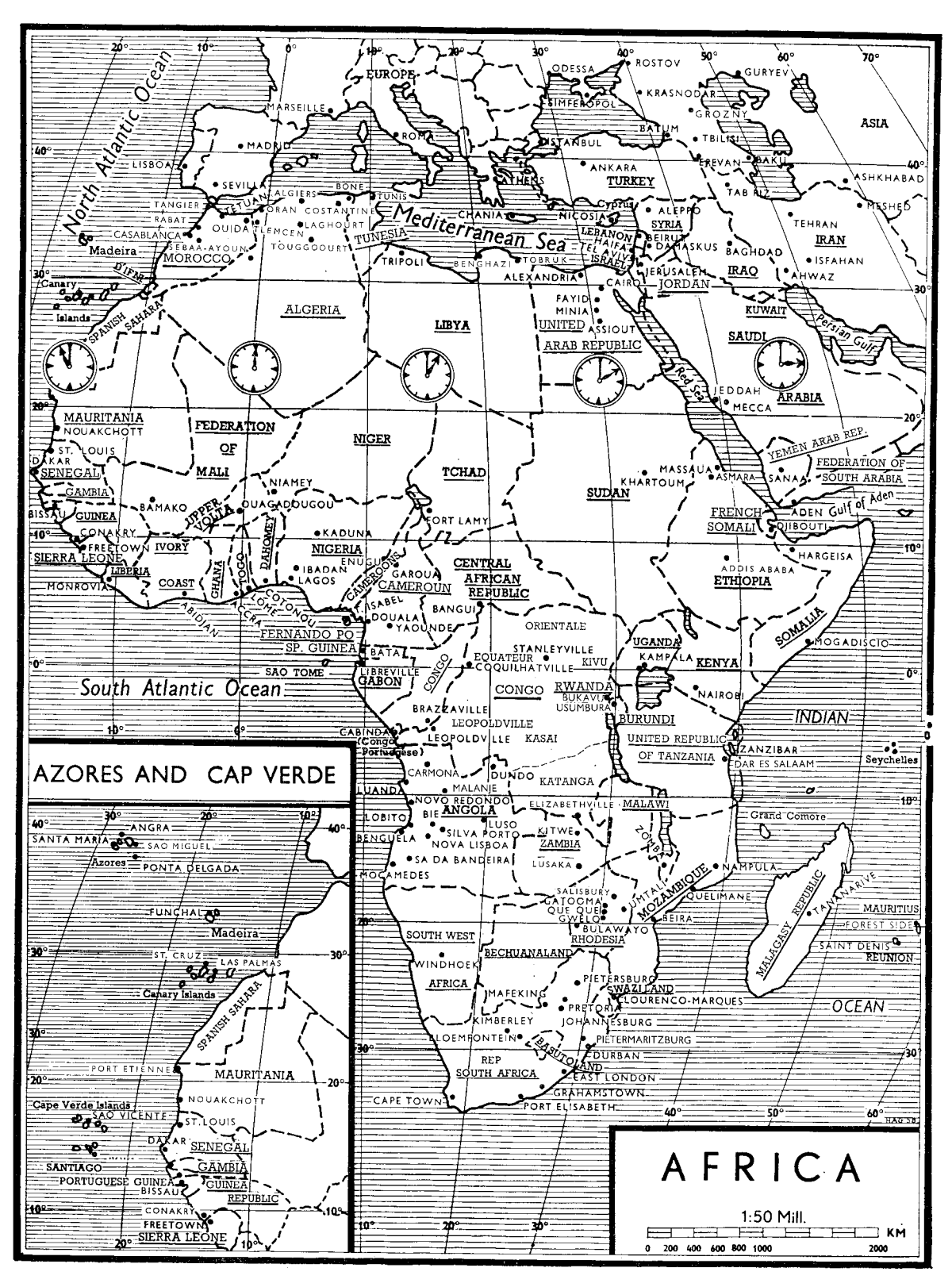
SHORT WAVES: Beograd:

kc	m	kW	kc	m	kW	kc	m	kW
6100	49.18	100	9505	31.56	50	11735	25.56	100
6150	48.78	10	9620	31.18	50	15240	19.69	100
7200	41.67	10						

FM:

	Mc	kW (ERP)
SERBIA		
Belgrade I	88.1	0.5
Belgrade II	95.3	0.25
Crni Vrh I	89.7	4
Crni Vrh I	89.7	4
Crni Vrh II	99.3	4
Crveni Cot I	94.5	40
Crveni Cot II	96.5	40
Goles I	99.7	4
Goles II	92.5	4
Jastrebac I	96.9	50
Jastrebac II	89.3	25
Kopaonik I	98.9	4
Kopaonik II	90.9	1
Ovcar I	88.5	4
Ovcar II	90.1	4
Tupiznica I	92.5	4
Tupiznica II	96.1	4
Novi Sad I	90.5	40
Novi Sad II	87.7	4
Goles	95.7	30
Pristina	93.7	0.25
CROATIA		
Labistica	96.1	5
Psunj	97.3	5
Pula	96.9	5
Sljeme	92.1	50
Stipanov Gric	89.6	2.5
Velebit	93.3	5
SLOVENIA		
Celje	97.0	0.03
Koper-town	89.3	0.375
Koper-Beli Kriz	97.7	0.375
Krvavec	98.9	2.5
Kum I	94.1	4.5
Kum II	99.9	0.5
Ljubljana I	96.5	1.5
Ljubljana II	93.5	0.375
Mirna		
Gora I	97.7	0.375
Nanos I	92.9	1.5
Nanos II	95.3	0.375
Plesivec I	90.1	0.375
Pohorje I	88.5	0.375
Pohorje II	96.9	0.375
Stol	96.4	2.5
BOSNIA/HERZEGOVINA		
Bjelasnica	98.1	1
Hum	97.3	3
Sarajevo	95.7	1
MACEDONIA		
Crni Vrv	94.5	0.8
Pelister	97.7	0.8
Skopje	98.9	0.6
MONTENEGRO		
Bjelasica	92.1	1
Lovcen	94.9	1
Titograd	96.1	1.2

HOME SERVICE:
R. Beograd: W 03.00–23.05 (Sat–Mon 04.00–03.00). **N, Comm**: 03.00. 04.00, 05.00, 07.00, 09.00, 11.00, 12.00, 13.00, 14.00, 15.00, 17.00. 18.30, 20.00, 21.00, 22.00, 23.00.


AFRICA
1:50 Mill.
KM
0 200 400 600 800 1000 2000
AZORES AND CAP VERDE
North Atlantic Ocean
South Atlantic Ocean
Mediterranean Sea
INDIAN OCEAN
EUROPE
ASIA
ALGERIA
LIBYA
TUNISIA
MOROCCO
MAURITANIA
FEDERATION OF MALI
NIGER
TCHAD
SUDAN
NIGERIA
CAMEROUN
CENTRAL AFRICAN REPUBLIC
CONGO
GABON
ANGOLA
ZAMBIA
RHODESIA
SOUTH WEST AFRICA
BECHUANALAND
REP SOUTH AFRICA
MOZAMBIQUE
MALAGASY REPUBLIC
TANGANYIKA
KENYA
UGANDA
RWANDA
BURUNDI
UNITED REPUBLIC OF TANZANIA
ETHIOPIA
SOMALIA
FRENCH SOMALI
ADEN
YEMEN ARAB REP.
FEDERATION OF SOUTH ARABIA
SAUDI ARABIA
KUWAIT
IRAQ
IRAN
JORDAN
SYRIA
LEBANON
TURKEY
CYPRUS
GREECE
ITALY
SPANISH SAHARA
GAMBIA
GUINEA
SENEGAL
SIERRA LEONE
LIBERIA
IVORY COAST
GHANA
TOGO
DAHOMEY
UPPER VOLTA
CAMEROUNS
MADEIRA
Canary Islands
Cape Verde Islands
AZORES
Madeira
Canary Islands
Cape Verde Islands
SANTIAGO
PORTUGUESE GUINEA
GUINEA REPUBLIC
SENEGAL
GAMBIA
MAURITANIA
SPANISH SAHARA
Azores
Madeira
Canary Islands
Cape Verde Islands
Grand Comore
MAURITIUS
FOREST SIDE
SAINT DENIS
REUNION
Seychelles
Red Sea
Persian Gulf
Gulf of Aden
ROME
MADRID
LISBOA
MARSEILLE
ATHENS
ISTANBUL
ANKARA
ALEXANDRIA
CAIRO
JERUSALEM
BAGHDAD
TEHRAN
ISFAHAN
AHWAZ
MESHED
ASHKHABAD
TABRIZ
ERIVAN
BAKU
TBILISI
GROZNY
KRASNODAR
ROSTOV
ODESSA
SIMFEROPOL
BATUM
GURYEV
DAMASCUS
BEIRUT
ALEPPO
NICOSIA
CHANIA
TRIPOLI
BENGHAZI
TOBRUK
ALGIERS
TUNIS
BONE
CONSTANTINE
LAGHOUAT
TOUGGOURT
TLEMCEN
OUIDA
ORAN
SEVILLA
TETUAN
TANGIER
RABAT
CASABLANCA
SEBAA-AYOUN
MOROCCO
D'IFNI
Madeira
FAYID
MINIA
ASSIOUT
UNITED ARAB REPUBLIC
JEDDAH
MECCA
MASSAUA
ASMARA
SANA
KHARTOUM
ADEN
DJIBOUTI
HARGEISA
ADDIS ABABA
MOGADISCIO
NAIROBI
KAMPALA
KIVU
BUKAVU
USUMBURA
STANLEYVILLE
EQUATEUR
COQUILHATVILLE
ORIENTALE
BANGUI
FORT LAMY
GAROUA
YAOUNDE
DOUALA
ISABEL
BATA
LIBREVILLE
SAO TOME
FERNANDO PO
SP. GUINEA
LAGOS
IBADAN
ENUGU
KADUNA
NIAMEY
OUAGADOUGOU
BAMAKO
CONAKRY
FREETOWN
MONROVIA
NOUAKCHOTT
ST. LOUIS
DAKAR
BISSAU
ACCRA
LOME
COTONOU
ABIDJAN
BRAZZAVILLE
LEOPOLDVILLE
KASAI
CABINDA (Congo Portuguese)
CARMONA
DUNDO
KATANGA
LUANDA
MALANJE
NOVO REDONDO
BIE
LOBITO
BENGUELA
LUSO
SILVA PORTO
NOVA LISBOA
SA DA BANDEIRA
MOCAMEDES
KITWE
LUSAKA
ELIZABETHVILLE
MALAWI
ZOMBA
NAMPULA
QUELIMANE
BEIRA
UMTALI
GATOOMA
QUE QUE
GWELO
BULAWAYO
SALISBURY
TANANARIVE
SOUTH WEST
WINDHOEK
PIETERSBURG
SWAZILAND
LOURENCO-MARQUES
MAFEKING
PRETORIA
KIMBERLEY
JOHANNESBURG
BLOEMFONTEIN
PIETERMARITZBURG
DURBAN
BASUTOLAND
EAST LONDON
GRAHAMSTOWN
CAPE TOWN
PORT ELISABETH
ANGRA
SANTA MARIA
SAO MIGUEL
PONTA DELGADA
FUNCHAL
ST. CRUZ
LAS PALMAS
PORT ETIENNE
NOUAKCHOTT
ST. LOUIS
DAKAR
SANTIAGO
BISSAU
CONAKRY
FREETOWN
HAG 58

R. Zagreb: W 04.00–23.05(Sat 24.00). Sun 04.00–23.05. N, **Comm:** 04.00, 04.30, 05.00, 06.00, 07.00, 08.00, 10.00, 12.00, 16.00, 18.30, 20.00, 21.00, 22.00, 23.00.
R. Ljubljana: W 03.30–22.30. Sun 05.00–04.30. N, **Comm:** 05.00, 05.15, 06.00, 07.00, 09.00, 11.00, 12.00, 13.00, 14.00, 16.00, 17.00, 18.30, 21.00, 22.00.
R. Skopje: D 04.15–23.05. N, **Comm:** 04.15, 05.15, 06.30, 09.00, 11.00, 14.00, 16.00, 18.30, 21.00, 22.00, 23.00.
R. Sarajevo: D 04.25–23.05. N, **Comm:** 04.15, 05.30, 07.00, 09.00, 11.00, 12.00, 15.00, 16.00, 18.30.
R. Titograd: W 04.30–07.00, 11.00–22.00. Sun 05.00–22.00. N, **Comm:** 04.30, 05.30, 11.00, 12.00, 13.00, 16.00, 17.00, 18.00, 20.30.
R. Novi Sad: D 04.00–23.10. N, **Comm:** 04.15, 05.15, 06.30, 09.00, 11.00, 14.00, 16.00, 18.30, 21.00, 22.00, 23.00.
R. Pristina: W 04.00–08.10, 11.00–22.05. Sun 05.00–22.05. N, **Comm:** 04.02, 05.00, 07.00, 11.00, 12.00, 13.00, 16.00, 20.00, 21.00, 22.00.

FOREIGN SERVICE

	kc
Albanian	
14.00–14.30	6100, 7200, 9505
17.00–17.45	1412
18.30–19.00	881, 9505
20.30–20.45	(W) 1412
Arabic	
15.00–15.15	6100, 9505, 11735
17.30–18.00	6100, 7200
19.45–20.00	6100, 7200, 9505
Bulgarian	
14.00–14.30	917
18.00–18.30	6100, 7200, 9505
09.00–10.00	(Sun) 917
Czech	
16.45–17.00	1268
20.00–20.30	6100, 7200, 9505
21.30–21.45	1268
English	
15.30–16.00	9505, 11735, 15240
18.30–19.00	6100, 7200
22.00–22.15	1268, 6100, 7200, 9505
French	
16.30–16.45	6100, 7200, 9505
19.30–19.45	6100, 7200, 9505
22.15–22.30	1268, 6100, 7200, 9505
German	
16.45–17.00	6100, 7200, 9505
17.30–18.00	9505
16.45–17.00	6100, 7200, 9505
20.45–21.00	6100, 7200, 9505
Polish	
16.00–16.30	6100, 7200, 9505
20.30–20.45	6100, 7200, 9505
Russian	
04.30–04.15	1268, 6100, 7200, 9505
14.30–14.45	6100, 7200, 9505
17.00–17.30	6100, 7200, 9505
19.00–19.30	6100, 7200, 9505
Spanish	
21.30–22.00	6100, 7200, 9505
00.00–00.30	7200, 9505, 11735
01.00–01.30	7200, 9505, 11735

N: At the beginning of every tr.
ANN: Home Service: "Here is Radiotelevision Beograd, ...Zagreb, ...Ljubljana etc." – "Ovde Radiotelevizija Beograd, ...Zagreb, ...Ljubljana etc." – Foreign Service: "This is Yugoslavia, R.Belgrade calling" – "Ici la Yugoslavie, Belgrade vous parle". "Hier spricht R.Beograd".
INT-SIG: Home and Foreign Service: The beginning of the "Internationale" (Radio Belgrade).

V. by QSL-card. Re. to: Chief Editor of External Broadcasting. 2 Hilendarska, Beograd. Recordings accepted.
Telefunken A.G. Germany delivered studio equip (recorders) – AKG, Austria delivered studio equipment (recorders, microphones).
Brown Boveri, Switzerland, delivered 100kW sw-tr. (Stublisa), 100kW mw-tr. Skopje, 20kW Zagreb.
Sondor, Switzerland, delivered studio equipment to Ljubljana, Beograd. Wilh. Franz KG, Germany: EMT studio equip.

AFRICA

ALGERIA

L.T: GMT – Pr.L: French, Arabic, Kabyl.
RADIODIFFUSION-TELEVISION ALGERIENNE (Gov.)
ADDR: 21, Blv. des Martyrs, Algiers. **Te:** 602300. **Telex:** 91014.
L.P: Dir. Gen: M. Mahi Youssef Mounir. Dir. Adm: M. Hadjij. Dir. Tec: A. Laghouati. St. Mgr (radio): B. Zerrouki.
ARABIC NETWORK: W 06.00–09.00, 12.00–24.00. Sun 06.00–24.00.

	kc	m	kW		kc	m	kW
Oran I	548	547.4	300	Alger	9510	31.55	50
Algier I	980	306.1	200		11810	25.40	50
Constantine I	1142	262.7	40		15380	19.50	50

N: 07.00, 10.00, 12.00, 13.15, 15.00, 17.15, 18.00, 20.00, 22.30, 24.00.
FRENCH NETWORK: W 06.30–09.00, 11.00–14.30, 17.00–22.00. Sun 07.00–22.00.

	kc	m	kW		kc	m	kW
Algier II	890	331.1	200	Alger	6175	48.58	50
Constantine II	1304	230.1	20		9685	30.98	50
Oran II	1304	230.0	20		11835	25.35	50

N: 07.30, 12.15, 13.00, 18.00, 19.00, 19.45, 21.45.
KABYL NETWORK: D 06.30–09.00, 12.00–15.00, 18.00–23.00.

	kc	m	kW		kc	m	kW
Alger III	1421	211	40	Alger	6080	49.34	100
					15225	19.70	100

N: 07.15, 12.30, 14.45, 18.02, 19.30, 22.40.
SUPPLEMENTARY NETWORK (relays French, Arabic netw, local prgrs): 11.00–13.15, 17.00–23.00.

	kc	m	kW		kc	m	kW
Touggoourt	557	539	1	Setif	854	351	0.05
Laghourt	575	522	4	Batna	1016	295	1
Bouira	692	434	1	Souk Ahras	1079	278	1
Tlemcen	746	402	1	Bougie	1594	188.2	0.6

RELAYS ON SHORT WAVE:
Arabic (to Morocco, Middle East): 06.00–09.00, 17.00–24.00 on 9510/11810kc, 12.00–17.00 on 11810/15380kc – **French** (to Europe): 06.30–08.30, 17.00–23.00 on 6175/9685kc, 08.30–17.00 on 9685/11835 kc – **Kabyl** (to Europe): 06.30–08.30(Sun 09.00), 18.00(Sun 17.00)–23.00 on 6080kc; 12.00–15.00(Sun 17.00) on 15225kc.
FOREIGN SERVICE on 890/6175/9685kc:
English 22.00–22.30; **Spanish** 22.30–23.00.
ANN: F: "Ici Alger Radiodiff. Télévision de la République Algerienne Democratique et populaire". Arabic: "Houna el Djazair Idhaatou el Djamhouriati el Djazariyati el Demaukrati hati oua ch'chaa bi'yati" – V. by QSL-card. Re. in French.

ANGOLA (Portuguese West Africa)

L.T: GMT+1 h – Pr.L: Portuguese.
STATIONS: Call CR6 – All st's comm. exc. 2) (Gov.), 12) (Rlg)

Short Waves:	kc	m	kW	Name
1) RF	3295	91.05	0.25	R. Cl. de Benguela
2) RZ	3375	89.89	10	R. Angola
3) RD	3704	80.99	1	R. Cl. do Huambo
4) RM	3740	80.21	0.75	R. Cl. de Moçamedes
5) SG	3970	75.75	1	R. Cl. da Huila
6) –	3995	75.09	10	R. Comercial de Angola
7) RG	4770	62.89	0.5	R. Diamang
6) –	4795	62.57	10	R. Comercial de Angola
2) RZ	4820	62.24	10	R. Angola
8) RY	4840	61.98	1	R. Cl. do Cuanza Sul
13) RO	4895	61.29	1	R. Cl. do Bie
9) RN	4869	61.60	1	R. Cl. de Angola
10) RS	4905	61.16	1	R. Cl. do Lobito
11) RE	4935	60.80	1	R. Cl. de Malanje
12) RB	4984	60.19	0.2	R. Ecclesia
4) RM	5015	59.82	1	R. Clube de Moçamedes
5) RH	5024	59.71	1	R. Cl. da Huila
14) RW	5033	59.59	1	R. Cl. de Cabinda
1) RF	5042	59.50	1	R. Cl. de Benguela
3) RD	5065	59.23	1	R. Cl. do Huambo
15) RV	5137	58.40	1	R. Cl. do Moxico
2) RZ	6025	49.79	10	R. Angola
16) RU	6135	48.90	1	R. Cl. do Congo Portuguese
1) RF	6150	48.78	1	R. Cl. de Benguela
11) RE	7115	42.15	0.5	R. Cl. de Malanje
3) RD	7125	42.11	1	R. Cl. do Huambo
9) RA	7140	42.02	0.25	R. Cl. de Angola
6) –	7155	41.92	10	R. Comercial de Angola
10) RS	7175	41.81	1	R. Cl. do Lobito
4) RM	7230	41.49	0.75	R. Cl. de Moçamedes
2) RZ	7235	41.47	10	R. Angola
8) RP	7285	41.18	0.25	R. Cl. do Cuanza Sul
13) RO	7390	40.60	1	R. Cl. do Bie
4) RM	9515	31.53	1	R. Cl. de Moçamedes
2) RZ	9535	31.46	10	R. Angola
7) RI	9612	31.21	1	R. Diamang
9) RL	9630	31.15	1	R. Cl. de Angola
5) SG	9675	31.01	1	R. Cl. da Huila
7) RR	11685	25.67	1	R. Diamang
5) SG	11940	25.13	1	R. Cl. da Huila

Medium Waves: ° = Short Waves

Call	kc	m	kW	Call	kc	m	kW
9) R	°830	361.4	1	4) RM	°1331	225.4	1
2) RZ	°872	344.0	10	14) RW	°1340	224.0	1
12) RB	°1010	297.0	1	5) RA	°1367	219.5	1
10) RS	°1110	270.0	1	13) RO	°1385	217.0	1
8) PR	°1160	259.0	1	17) –	1435	209.0	0.5
16) RU	°1187	252.7	1	6) –	°1439	208.0	1
11) RE	°1205	249.0	1	3) RD	°1500	200.0	0.5
15) –	°1214	247.0	1	1) –	°1529	196.2	1
3) RD	°1259	238.0	1	17) –	1550	193.5	0.5
2) RZ	°1295	231.0	1				

FM: 1) 90.5Mc 0.05kW – 2) 92.7Mc 0.01kW – 3) 97, 107Mc 0.05kW – 8) 93.8Mc 1kW – 10) 93.6Mc 0.25kW.

1) C.P. 19, Benguela. **Te:** 117. **Cable:** Radio Clube – **L.P:** Pres: L. N. Serodio. Chief Prod: A. Freire. **D.Prgr:** W 05.45–13.30, 15.30–23.00. Sun 07.00–21.30. **N:** 06.30(W), 09.00(Sun), 11.30(W), 12.30 (Sun), 18.30, 22.45(W) – **Wrp:** after N. 11.30, 18.30 – Emissor Reg. do Cubal (3295kc): W 05.45–07.00, 10.00–13.30, 16.30–21.30. Sun 07.00–09.00, 11.00–21.30 – **Ann:** "R. Clube de Benguela, Angola, Provincia Portuguesa de Africa" – **Int-Sig:** Solo on Kissange, a native instrument. **V.** by QSL-card or letter. Recordings accepted.

2) C.P. 1321, Luanda. **Te:** 2192 – **L.P:** Dir. Gen: C. J. da Gama Cardoso. Dir. Tec: J. C. Proença. Dir. Prgr: R. J. de Sousa Romano. Dir. Adm: A. Diogo Jr – **D.Prgr:** 06.00–10.00 on 872/1295/6025/4820/7235kc, 10.00–17.45 on 872/1295/4820/7235/9535kc, 17.45–19.30 on 872/1295/3375/4820/6025kc, 19.30–01.00 on 1295/3375/4820/6025kc (also on 872 kc from 23.00). **N:** 06.05, 09.00, 10.00, 12.00, 14.00, 17.00, 19.00, 22.00, 23.30, 24.00 – **Classical cultural Prgr:** 19.30–23.00 on 872kc – **English:** 17.05–17.45 on 7235/9535kc, 10.15–10.55 (repeat from day before) on 9535kc – **French:** 10.15–10.55 on 7235kc, 11.15–11.55 (repeat) on 4820kc – **Ann:** "Aqui Portugal, Emissora Oficial da Provincia de Angola, Luanda". E: "This is Luanda Calling from the Studios of the National R. Station of Angola, Portugal". F: "La Portugal à l'Afrique vous parle, la Radiodiff. Officiale de la Province du Angola en Luanda" – **Int-Sig:** Kizanzi (first movements of Nat. anthem) – **V.** by QSL-card. Re. appreciated – **F.PL:** 2 × 100kW tr's (mw & sw) in 1966.

3) C.P. 125, Nova Lisboa. **Te:** 41. **Cable:** Radihuambo – **L.P:** Pres: N. D. Ribeiro. Vice Pres: Dr. J. A. Costa. Secr: J. H. Silva – **D.Prgr:** D 06.00–17.00 on 1259/5065/7125kc, 17.00–21.30 on 1500/5065kc, 21.30–23.00 on 1259/1500/3704/5065kc. **N:** 06.30, 11.30, 15.30, 17.00, 19.00, 21.30 – **B. Prgr.** (Portuguese, Umbundo): 17.00–21.30 on 1259/3704kc. **Umbundo:** 17.00–19.00 – **Ann:** P: "Aqui Angola, Portugal, de Nova Lisboa transmite o R. Clube do Huambo, Uma voz portuguesa em Africa" (This is Angola, Portugal, R. Clube of Huambo, Nova Lisboa – A Portuguese voice in Africa). Umbundo: "Kulo ko Angola Portugal. Ylo ó R. Clube yo Huambo, ko Nova Lisboa, Ocipama cetu ca Cruzeiro do Sul" – **Int-Sig:** Birdchirping – **V.** by QSL-card.

4) C.P. 174, Moçamedes. **Te:** 200. **Cable:** Radioclube – **L.P:** Pres: J. G. Duarte. St. Mgr: R. R. Costa – **D.Prgr:** W 06.00–09.00, 11.00–13.30 on 1331/7230/9515kc, 16.30–22.00 on 1331/3740/5015kc. Sun 07.00–10.00 on 1331/7230/5015kc, 10.00–11.00 on 1331/7230kc, 11.00–16.00 on 1331/7230/9515kc, 16.00–21.00 on 1331/3740/5015kc – **N:** 06.30(W), 12.00, 19.00 – **English:** Sun 10.00–11.00 on 9515kc to So. & So. We. Africa – **Ann:** "R. Clube de Moçamedes, em Angola, Provincia Portuguesa de Africa" – **V.** by QSL-card.

5) C.P. 111, Sá da Bandeira. **Te:** 92. **Cable:** Radioclube – **L.P:** Pres: Dr. E. de Figueirede Fernandes. Dir. Tec: J. H. Guimaraes – **D.Prgr:** 06.30–09.00(Sun 07.30–11.00) on 1367/5025/9675kc, 11.00–13.30 (Sun 15.00) on 1367/5025/9675/11940kc, 15.30(Sun 15.00)–17.00 on 1367/5025/9675kc, 17.00–23.00(Sun 22.00) on 1367/3970/5025kc – **N.** 07.30(W), 12.00, 19.30 – **Ann:** "R. Clube da Huila em Sá da Bandeira, Angola, Provincia de Portugal em Africa" – **Int-Sig:** First movements from "Bailinho da Madeira" – **V.** by QSL-card. Rp.

6) C.P. 269, Sa da Bandeira. **Te:** 302. **Cable:** Radcol – **L.P:** Dir. Gen: A. Maria Telo. Mgr: J. J. A. da Cunha. Dir. Tec: L. Pereira Venâncio – **D.Prgr:** W 05.30–09.00, 17.00–19.00 on 1439/4795kc, 10.30–13.00 on 1439/7155kc, 19.00–22.00 on 1439/3995kc. Sun 08.00–16.00 on 1439/7155kc, 16.00–19.00 on 1439/4795kc, 19.00–22.00 on 1439/3995kc. **N:** 06.00(W), 11.00, 18.30 – **Ann:** "R. Comercial de Angola A Voz de amizade, com os seus estudios em Sa Da Bandeira" – **Int-Sig:** Trumpets, Drums – **V.** by letter – **F.PL:** See in English, Afrikaans, German to So. & So. We. Africa using 10 & 20kW tr's.

7) Dundo, Luanda. **Cable:** Diamang, Portugalia – **L.P:** Dir. Gen: J. A. Dexiga. Dir. Tec: F. O. T. Rego – **D.Prgr:** W 18.00–19.30, Sun 11.00–12.30. R. Diamang is a private st. which aims only to entertain the Diamang employees who work in the mining fields of Lunda. The Prgr's are varied and consist only of classic, light and native music – **Ann** "Aqui Dundo, Angola, Provincia Portuguesa de Africa. R. Diamang, Estação Emissora da Compañhia de Diamantes de Angola" – **Int-Sig** At opening "Marimba" solo (native instrument of percussion similar to the xylophone) – **V.** by QSL-card. Re. in P, E, or F.

8) C.P. 10, Novo Redondo – **L.P:** Pres: Eng. C. Horta. Dir. Tec: J. Vilela. **D.Prgr:** W 11.00–13.00, 16.00–22.00. Sun 11.00–21.00 – **Ann:** "R. Clube do Cuanza Sul, Angola, Provincia Portuguesa d'Africa" – **Int-Sig:** Guitar – **V.** by QSL-card.

9) C.P. 229, Luanda. **Te:** 3448. **Cable:** Radangola – **L.P:** Pres: Com. M. de Albuquerque e Castro. Secr: A. M. da Costa. Tec. Mgr: B. Victor. Dir. Adm: J. Teles – **D.Prgr:** 06.00–09.00, 11.00–14.00 (Sun 08.00–14.00) on 830/7140/9630kc, 16.00–23.00 (Sun 14.00–21.00) on 830/4870kc – **N:** 06.15(W), 11.45, 18.30(Sun), 18.45(W), 22.45(W) – **Ann:** "Angola, Provincia Portuguesa de Africa, de Luanda emite R. Clube de Angola, a vossa estação..." – **V.** by QSL-card.

WORLD PUBLICATIONS present

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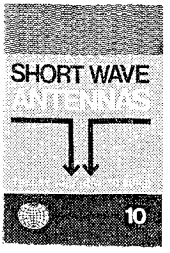

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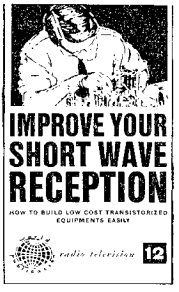

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This book will prove useful to technicians, the staff of TV-stations, TV-DX'ers and all those who want to gain knowledge of the technique of television. Easy to understand. Illustrated throughout with photos and drawings.

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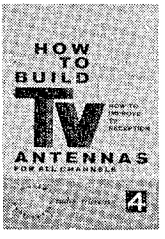
HOW TO BUILD TV-ANTENNAS



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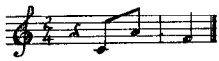
Int-Sig: 

10) C.P. 56, Lobito. Te: 62 – L.P: Pres: J. V. Raposo. Dir. Tec. A. Fernandes. Dir. Prgr: J. E. Monteiro – D.Prgr: 06.00–08.00, 11.00–13.30 on 1110/4910/7175kc, 16.00–23.00 on 1110/4910kc. N: 06.15, 12.00, 16.30, 19.00, 21.00, 22.50 – Ann: "Angola, Portugal transmite o R. Clube de Lobito" – Int-Sig: Gong – V. by QSL-card or letter. Re. in E, F, P, Sp.
11) C.P. 83, Malanje. Te: 30 – L.P: Pres: J. B. P. do Amaral. Dir. Prgr: J. de Sousa Berenguel. Dir. Tec: J. C. A. da Silva – D.Prgr: 06.00–09.00, 11.00–14.00 (Sat/Sun 16.00) on 1205/4935/7115kc, 16.00–22.00 (Sat 23.00) on 1205/4935kc. N: 06.30, 11.50, 19.00, 22.00(Sat) – ANN: "Aqui Portugal transmite o R. Clube de Malanje em Angola, Provincia Portuguesa de Africa" – Int-Sig: Some movements from "Reida Festa" on Guitar – V. by QSL-card.
12) C.P. 156, Luanda. Te: 2302. Cable: "Ecclésia" – L.P: Dir. Gen: J. M. Pereira. Dir. Tec. J. F. Dimiz da Gama – D.Prgr: 05.30–24.00. N: 06.00, 11.45, 12.45, 15.00, 18.30, 21.45, 23.45 – Ann: "Aqui Portugal R. Ecclésia, Emissora Catolica de Angola" – Int-Sig: Music from "A Treze de Maio" – V. by QSL-card.
13) C.P. 33, Silva Porto – L.P: Pres: T. J. dos Reis Rámos. Dir. Tec: L. Novo – D.Prgr: 06.00–07.00, 11.00–13.00(Sun 08.00–16.00) on 1385/7390kc, 16.30–22.00(Sun 16.00–21.00) on 1385/4895kc – N: 06.20(W), 11.20, 18.20 – Ann: "R. Clube do Bie em Silva Porto, Angola, Provincia de Portugal em Africa" – Int-Sig: Gong – V. by QSL-card.
14) C.P. 116, Cabinda. Te: 116 – L.P: Pres: Dr. J. Delgado. Dir. Tec: A. T. Monis – D.Prgr: W 06.00–07.00, 11.30–13.00, 17.30–21.30. Sun 08.00–14.00, 16.00–18.00. N: 06.30, 12.00, 17.30(Sun), 19.00(W) – Ann: "Aqui Cabinda, Angola, Provincia Portuguesa d'Africa transmite o R. Clube de Cabinda" – Int-Sig: Gong – V. by QSL-card or letter. Recordings accepted.
15) C.P. 74, Luso. Cable: Radioclube – L.P: Pres: M. Simões. Dir. Tec: J. Bareira. Dir. Prgr: A. M. Pinheiro – D.Prgr: W 05.30–07.00, 11.00–13.00, 17.30–21.00. Sun 08.00–14.00, 17.00–20.00 – N: 05.50, 12.00, 19.00 – Ann: "R. Clube do Moxico, em Luso, Angola, Provincia Portuguesa em Africa" – Int-Sig: Gong – V. by QSL-card.
16) C.P. 140, Carmona. Te: 26. Cable: Radioclube – L.P: Pres: J. J. Nogueira. Vice Pres: T. F. de Sousa. Secr: F. Barreira – D.Prgr: W 06.00–07.30, 11.00–13.00(Sat 14.00), 18.00–21.30. Sun 08.00–10.00, 12.00–17.00. N: 06.30, 12.00, 19.00 – Ann: "R. Clube do Congo Portugues, em Angola, Provincia Portuguesa d'Africa" – Int-Sig: Passarinhos followed by Portuguese music – V. by letter.
Medium Waves: 17) A Voz de Luanda, C.P. 6543, Luanda, Te: 2907 – L.P: Dir. Gen: C. Moutinho. Dir. Tec: A. de Oliveira Lopes – D.Prgr: 05.15–01.15 – Ann: "Aqui Portugal, da Cidade Capital de Angola transmite "A Voz de Luanda" – V. by letter. Recordings accepted. Wilh. Franz KG, Germany: EMT studio equipment to Emisora Oficial.

ASCENCION ISLAND (British)

L.T: GMT – Pr.L: English.
VOLCANO RADIO (Priv.)
Operated by members of RCA and Pan-American Airways – ADDR: Volcano Radio, Ascencion Island – L.P: Eng-in-charge: P. K. Reid Jr. STATION: 1600kc 1kW: 24 h in English. V. by letter. Re. to Box 4187, Patrick Air Force Base, Fla. 32925, USA.

The BBC has placed an order with The Marconi Company for the supply of four 250kW sw-tr's for relay purposes. The st. will make it possible to improve reception of BBC-prgr's throughout West-, Central- & So. Africa, So. America, Caribbean area. Thus it will be especially valuable for the BBC W.S. for English speaking listeners, together with the African Sce. in English and Hausa, the French Sce. for Africa and the Latin American Sce. in Spanish and Portuguese.

BASUTOLAND (Br. Protect.)

L.T: GMT+2 h – Pr.L: Sesotho, English.
LESOTHO BROADCASTING CORPORATION (Gov.)
ADDR: P.O. Box 353, Maseru – L.P: Dir. of Inf: U. B. Tristram. STATIONS: 10kW mw and a 5kW sw tr in operation 12 hrs daily in 1966. At present the station has a "pilot" Sce. over St ZNF-4V at 04.45–05.15, 17.30–18.00 consisting of news, features and music in Sesotho and English – ANN: E: "This is the Basutoland Gov. Broadc. Sce" – V. by QSL-card.

RADIO STATION ZNF-4V (Educ.)
Owned and operated by the Educational Secretary, Roman Catholic Schools, Basutoland – ADDR: Catholic School Secretariat, P.O. Box 80, Maseru. Te: 2525 – L.P: Dir. Gen: M. Gareau O. M. I. St. Mgr: L. Nchapha. Dir. Tec: J. Mothale.
STATION: 3824kc 78.46m 0.1kW.
HOME SCE. in Sesotho: Sat 06.30–07.15, 18.00–18.45. Sun 10.30–11.00 – ANN: "ZNF-4V, Maseru" – INT-SIG: Local basuto instruments – V. by letter.

BECHUANALAND (British Protectorate)

L.T: GMT+2 h – Pr.L: English.
RADIO BECHUANALAND (Gov.)
ADDR: P.O. Box 52, Gaberones. Cable: Broadcasts.
L.P: Dir. of Inf. & Broadc: A. H. Donald. Chief Eng: C. I. Kennedy. Dir. Prgrs: D. M. Mokaila.
STATION (System: STC): 3356kc 89.40m 2kW.
HOME SCE. in English, Setswana: Mon–Fri 15.30–17.30.
N. in English: 16.00(BBC), 16.10. N. in Setswana: 16.20.
ANN: E: "This is R. Bechuanaland broadc. from Gaberones". Setswana: "Ke tekeletso ka seroma-mowa mo freq. 3.356Mc mo station R. Bechuanaland" – INT-SIG: Cow Bells – V. by QSL-card. F.PL: New 10kW tr. early 1966. New freq. in the 49 m.b.

BURUNDI (Kingdom)

L.T: GMT+2 h – Pr.L: Kirundi, Kiswahili, French.
RADIO BURUNDI (Gov.)
ADDR: B.P. 1900, Bujumbura. Te: 2236. Cable: Inforburundi. L.P: Dir. Gen: E. Bindaba. Dir. of Inf: L. Kahungu. Dir. of Prgr's: J. Bukuru. Tec. Councellors (OCORA): Roux, Gleiza, Michaut.
STATIONS: 1165kc 1kW – 6195kc 48.43m 10kW.
HOME SCE. in French, Kirundi, Kiswahili: W 04.00–05.45, 10.00–11.45, 15.00–21.00. Sun 04.00–12.00, 14.30–21.00. N. in French: 04.45, 10.45, 18.00. N. in Kirundi: 05.00, 11.00, 17.00. N. in Kiswahili: 05.15, 11.15, 17.30 – L.L: English: Mon, Wed 15.30. French: Tues, Thurs 15.30.
ANN: F: "Ici Bujumbura, station de Radiodiff. Nationale du Burundi émettant dans les bandes des 48m et 252metres, soit 6195kc, 1165kc" – INT-SIG: A Rundi (umuduli) vocal bow: This is an ordinary bow that is stretched over the tendon of an ox, fitted with a calabash bowl instead of a resonance box. This instrument produces a monotonous rhythmical tone consisting of two characteristic sounds – V. by QSL-card. Recordings accepted – PUB: Prgr.schedule – F.PL: 25kW tr.

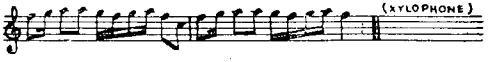
RADIO CORDAC (Corporation de Radiodiffusion de l'Afrique Central – Central African Broadcasting Company, a Missionary Broadc. Station).
ADDR: B.P. 1140, Bujumbura. Te: 2503. Cable: "Cordac" – L.P: Dir. of Inf: R. D. Kellum. Dir. Tec: J. E. Morris.
STATIONS (Systems: Raytheon, Hallicrafter): 9UB93 1400kc 0.25kW – 9UB92 3985kc 75.38m 0.25kW – 9UB94 4920kc 60.98m 0.5kW.
HOME SCE. (rlg. prgr's) in Kirundi, Kiswahili, French, English: D. 04.00–05.30(Sun 07.30), 10.00–11.00, 18.00–19.15(religious and musical prgr's): English: 05.16–05.30, 18.00–18.15, 19.00–19.15. French: 05.00–05.15, 10.00–11.00, 18.45–19.00. Other times in Kirundi, Kiswahili.
ANN: E: "This is Cordac Bujumbura, Burundi. The Central Africa Broadc. Co. Incorporated". – INT-SIG: "Come Ye thankful people come" played on Carillon – V. by QSL-card. Records accepted. Rp. PUB: "News Flashes" monthly bulletin in English, Kirundi free upon request. F.PL: 2.5kW.

CAMEROON (Federal Republic of)

L.T: GMT+1 h – Pr.L: French, English, Vernaculars.
RADIODIFFUSION DU CAMEROUN (Gov.)
ADDR: B.P. 281, Yaounde. Te: 2515. Cable: "Radiocameroun" – L.P: Federal Dir: A. Moutongo Black. Dir. Fed. Adjoint: J. Foualem-Fotso. Dir. Prgr: M. D. Onana, J. F. Sembey. Dir. News: E. Ngob-Hob. Dir. Tec: M. Kamdem.

RADIO YAOUNDE (Nat. st.)
ADDR: B.P. 281, Yaounde. Cable: "Radio Yaounde". Te: 2517 – L.P: Dir: J. Moudiki. Dir. Tec: S. M. Poual.
STATIONS: m.w. 1kW, s.w. 4/30kW.
1286kc 233m – 4972.5kc 60.33m – 6040kc 49.67m.
HOME SCE: Mon–Fri: 04.30–07.00 on 1286/4972.5kc, 11.00–14.00 on 1286/6040kc, 16.00–22.00 on 1286/4972.5kc. Sat: 05.30–07.00, 11.00–23.00 on 1286/4972.5kc (11.00–17.00 also 6040kc). Sun: 05.00–23.00 on 1286/4972.5kc (06.30–17.00 also 6040kc).
French: W: 05.30–07.00, 11.00–13.00, 17.00–19.00, 19.20–22.00. Sat: 05.30–07.00, 11.00–13.30, 14.45–19.00, 19.20–23.00. Sun: 06.30–13.30, 15.15–19.00, 19.20–23.00. English: W: 04.30–05.30, 13.00–14.00. 16.00–17.00, 19.00–19.20. Sat: 04.30–05.30, 13.30–14.45, 19.00–19.20, Sun: 05.00–06.30, 13.30–15.15, 19.00–19.20. Vernaculars: Tues 17.00–17.30 (Ewondo); Wed 17.00–17.30 (Bamiléké).
N: W: 06.15, 12.00(Sat 12.15), 17.30, 18.30, 21.30; Sun: 06.30, 07.50, 12.00, 17.30, 18.30, 21.30.
ANN: "Ici Yaoundé, Radiodiff. de la République Fédérale du Cameroun, Poste National" – INT-SIG: Local music on balafon – V. by QSL-card or letter. Rp. Re. in English, French.

RADIO DOUALA (Gov.)
ADDR: B.P. 986, Douala. Cable: Radio Douala. Te: 4575 – L.P: Dir: F. Mouasso-Priso. Dir. Tec: M. Mouelle. Dir. Prgr: M. Locca.
STATIONS: 1448kc 207.2m – 6115kc 49.06m 1kW.
HOME SCE. in French, Douala, Bassa, Bamileke, Ewondo: Mon–Fri 04.45–07.00, 10.45–14.00, 17.00–21.30. Sat 04.45–07.00, 10.45–23.00. Sun 06.30–21.30. N. in French relayed from R. Yaounde.
ANN: F: "Ici Douala, Radiodiff. du Cameroun" – INT-SIG: At opening and close down and 11.15 and 17.00: Hymn of Cameroon: "O Cameroun berceau de nos ancêtres" fanfare.



V. by QSL-card or letter. Rp – PUB: Prgr.sched. (weekly).

RADIO GAROUA (Gov.)
ADDR: B.P. 103, Garoua. Te: 012 – L.P: Dir: B. Malgana. Dir. Tec: J. Mbiangué. Dir. Prgr: B. Bassilekin
STATIONS: mw 1kW, sw 4/30kW.
1348kc 222.0m – 5010kc 59.88m.
HOME SCE. in French, Hausa, Foulfouldé on 1348/5010kc: W 11.15–13.15 (Thurs, Sat 13.30, Fri 14.00), 17.00–22.00. Sun 07.00–13.15, 14.30–22.00.
French: 11.15–12.15 (Sun 07.00–12.30), 17.00 (Sun 14.30)–19.30. N: 12.00, 19.00 – Foulfoulde: 12.15–13.15, 19.30–20.30. N: 12.15(W), 12.30(Sun), 19.30, 20.00(W) – Hausa: 20.30–21.30. N: 20.30, 21.00 (Sun) – Arabic: (N): 21.30.
ANN: "Ici Garoua, Radiodiff. du Cameroun" – INT-SIG: Flute & tam-tam – V. by QSL-card. Rp.

RADIO BUEA (Gov.)
ADDR: B.P. 281, Yaounde – L.P: Dir: M. Neba-Fabs. Dir. Tec: T. Mbiangue – STATION: 5984kc 50.13m 1kW.
HOME SCE. in French: 05.00–07.00(Sun 11.00), 13.30–21.30 – N (relayed from R. Yaounde): 05.15, 13.30, 16.30, 19.00, 21.25.

CANARY ISLANDS (Spanish)

L.T: GMT – Pr.L: Spanish.

RADIO NACIONAL DE ESPAÑA (Centro Emisor del Atlántico)
ADDR: Valentin Sanz 4, Pisos 5° y 6°, Sta. Cruz de Tenerife. Te: 244187 – L.P: Dir: D. D. Manfredi Cano.
STATIONS: mw 100kW, sw 50kW.
620kc 483.9m – 9660kc 31.06m – 11800kc 25.42m.
D.PRGR: 07.45–00.05 on 620kc. N: 09.00, 14.00, 21.00, 24.00; On 9660kc 14.00–16.00. N: 15.00; On 11800kc 00.00–03.00. N: 01.00 – ANN: "R. Nacional de España en Canarias, Centro Emisor del Atlántico" – INT-SIG: Marcha de "La Generala".

LA VOZ DE LA ISLA DE LA PALMA
ADDR: Emisora Sindical, Santa Cruz de la Palma. Te: 862. Cable: Emisora – L.P: Dir: M. Fernández de las Casas. Dir. Tec: E. Fuillerat.
STATION: 7345kc 40.85m 0.35kW (to be changed).
HOME SCE. in Spanish: 08.00–09.00, 12.00–16.00, 18.00–23.00. N: 09.10, 12.10, 13.30*, 14.15, 21.00* (*=rel. R.N.E.).
ANN: "La Voz de la Isla de la Palma Emisora Sindical, Santa Cruz de la Palma" – INT-SIG: "La Orgia Dorada" (Military March) – V. by letter. Recordings accepted.

RADIO ATLANTICO (Comm.)
ADDR: Ca. General Franco 50, Las Palmas. Te: 21083. Cable: Radio Atlantico.
STATIONS: 1097kc 273.5 10kW – FM: 93.9Mc 5kW.
HOME SCE. in Spanish: D 06.55–00.15 – N: 08.00*, 08.45, 13.30*, 14.00, 20.00, 21.00*, 24.00* (* rel. R. Nacional) – ANN: Sp: "Transmite R. Atlantico, E.C.S. no 4, Emisora Sindical de las Palmas de Gran Canaria Islas Canarias" – INT-SIG: Canary guitar chords – V. by QSL-card or letter. Recordings accepted.

RADIO LAS PALMAS (Comm.)
AD: 10 min. per h – ADDR: Calle Triana 134, Dpdo, Las Palmas. Te: 220351-S. Cable: Radio Las Palmas – L.P: Dir. Prgr: J. M. Ayaso.
HOME SCE: EAJ50 953kc 314.6m 3kW: 07.00–01.00.
N: 09.15, 13.30, 14.15(local), 21.00 – ANN: "Transmite E.A.J.50 R. Las Palmas" – INT-SIG: Pasodoble "Islas Canarias" – V. by QSL-card. Recordings accepted.

RADIO CLUB TENERIFE (Cult.)
ADDR: Suárez Guerra 49, Santa Cruz de Tenerife. Te: 243542 – L.P: Pres: F. A. Acuña Dorta. Secr: J. Siliuto Méndez. Dir. Tec: P. Padrón Afonso.
STATION (System: Bauer): EAJ43 1412kc 212.4m 1kW: 08.00–24.00.
ANN: Sp: "Aqui R. Club Tenerife, emisora EAJ43, en Santa Cruz de Tenerife, Islas Canarias" – INT-SIG: 22.00 "Islas Canarias" – V. by letter – F.PL: 1.5kW tr.

RADIO JUVENTUD DE CANARIAS (C.A.R.)
ADDR: Castillo 27, Santa Cruz de Tenerife. Te: 243692 – L.P: Dir: D. M. A. Yanes Contreras.
STATION: EFJ57 1248kc 240m 10kW – HOME SCE: 07.00–01.00.
ANN: "R. Juventud de Canarias" – INT-SIG: The first notes from "Tierra Canaria" – V. by letter.

RADIO POPULAR DE GUIMAR
ADDR: San Pedro Arriba 4, Güimar (Tenerife).
STATION: EAK83 1133kc 264.8m 2kW – HOME SCE: 08.00–12.00, 13.00–19.00, 20.00–24.00 – ANN: "R. Popular de Güimar, Emisora diocesana, Villa de Güimar, Tenerife.

LA VOZ DEL VALLE DE LA OROTAVA
ADDR: Plaza del Ayuntamiento, Villa de la Orotava.
STATION: ESC25 1480kc 202.7m 0.4kW – ANN: "La Voz del Valle de la Orotava, Emisoras Sindical, la Orotava, Tenerife".

CAPE VERDE ISLANDS (Portuguese)

L.T: GMT−2 h – Pr.L: Portuguese, English.

REPARTIÇÃO PROVINCIAL DOS SERVIÇOS DOS CORREIOS, TELEGRAFOS E TELEFONES DE CABO VERDE, Praia.
L.P: Dir. de 2a classe dos CTTU: L. M. de Oliveira Santos.

RADIO CLUBE DE CABO VERDE (Pr.)
FI: By Gov & adv – ADDR: C.P. 26, Praia. Te: 344 – Cable: "Radio clube" – L.P: Pres: L. A. F. Raposo. Dir. Tec: F. A. da Cunha.
STATION (System: RCA, Hallicrafters):
3985 kc 75.28 m 5/0.5 kW.
HOME SCE. in Portuguese: 14.15–16.15 (Sat 15.00–18.00, Sun 12.00–14.00) on 3985kc (0.5kW) D: 20.00–22.00 on 3985kc. (5 kW)
N: 15.30, 21.30 – Wrp: 21.30 – ANN: "Aqui Praia Estação de Ondas Curtas do R. Clube de Cabo Verde" – INT-SIG: Five notes on Marimba – V. by QSL-card. Rp. Recordings accepted.

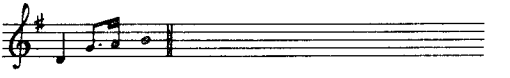
R. BARLAVENTO (Gov.)
FI: By Go. and adv – ADDR: C.P. 29, S. Vicente - L.P: Dir. Gen: J. M. Povoa & A. L. da Silva. Mgr: A. C. Salomão. Dir. Tec: T. Barrio Vieira.
STATION: (System: Philips): CR4AC 3930kc 76.34m 1kW.
HOME SCE: W 14.30–15.30, 22.00–24.00. Sun 11.00–13.00, 15.00–17.00, 22.00–24.00 – N: 14.30, 22.30.
ANN: "Aqui S. Vicente de Cabo Verde, Provincia Ultramarina de Portugal. Fala-vos CR4AC, estação de ondas curtas da R. Barlavento, que emite, diariamente, no comprimento de onda de 75m, freq. de 3960kc" – INT-SIG: Gong and "Cabo Verde Tetta Minha" (folklore) on accordeon – V. by QSL-card. Rp. Recordings accepted – F.PL: 10kW tr.

RADIO CLUBE MINDELO (Pr.)
FI: By Gov & adv – ADDR: C.P. 101, S. Vicente. Te: 476.
L.P: Secr: D. Almeida. Dir. Prgr: E. de Matos. Dir. Production: J. M. F. Azevedo.
STATION: CR4AB 4720 kc 63.56 m 0.25/0.45 kW.
HOME SCE: W 08.40–09.45, 19.55–22.00. Sun 09.55–11.00, 12.55–15.00, 20.25–22.00. N: 09.30(W), 21.30.
ANN: "Aqui R. Clube Mindelo estação de ondas curtas operando no comprimento de ondas de 63.56m freq. de 4720kc" – V. by QSL-card or letter. Recordings accepted. Prgr.schedule free – F.PL: 1kW.

CENTRAL AFRICAN REPUBLIC

L.T: GMT+1 h – Pr.L: French, Sango.

RADIODIFFUSION NATIONALE CENTRE-AFRICAINE
FI: By state – ADDR: P.B. 940, Bangui. Te: 2355 – L.P: Dir: V. Teteya. Dir. Tec: M. Mercier. Dir. N: H. Koba.
STATIONS: mw 1kW, sw 30kW (System: TRT):
1570kc 190m – 5035kc 59.58m – 7220kc 41.55m.
HOME SCE. in French & Vernaculars:
Mon–Fri 04.30–06.30, 16.30–21.00 on 1570/5035kc, 11.00–12.30 on 1570/7220kc; Sat 04.30–06.30, 16.30–22.15 on 1570/5035kc, 11.00–16.30 on 1570/7220kc; Sun 06.00–16.30 on 1570/7220kc, 16.30–21.00 on 1570/5035kc.
N. in French: 05.00(W), 06.00(W), 09.00(Sun) 11.45, 18.30, 20.50.
N. in Sango: 05.30(W), 08.15(Sun), 12.10, 17.15 – L.L (English): Mon, Thurs 05.10, 17.00 – Mbg: Sun 17.30.
ANN: "Ici Bangui Radiodiff. Nationale Centrafricaine" – INT-SIG: First notes of the national anthem played on piano.



V. by QSL-card, Re. in French. Recordings accepted.

CHAD (Rep. of the)

L.T: GMT+1 h – Pr.L: French, Arabic, Sara.

RADIODIFFUSION NATIONALE TCADIENNE (Gov.)

ADDR: B.P. 168, Fort Lamy. Cable: Radio Tchad. Te: 2273 – L.P: Dir: O. Touade. Dir. Tec: J. M. Amane. Dir. Prgr: A. Folly.

STATIONS: 1538 kc 195.0 m 1 kW – 4904 kc 61.18 m 30 kW
6165 kc 48.66 m 30 kW – 9615 kc 31.20 m 4 kW

HOME SCE. in French, Arabic, Sara: W 05.00–06.00 on 1538/4904.5 kc, 12.00–17.00 on 1538/6165/9615kc, 17.00–21.30(Sat 22.00) on 1538/4904.5kc. Sun 05.00–07.00 on 1538/4904.5kc, 07.00–17.00 on 1538/6165/9615kc, 17.00–21.30 on 1538/4904.5kc. N: French: 05.55, 12.30, 19.00, 21.15. Sara: 05.45, 15.00, 21.25. Arabic: 05.50, 18.00, 21.20.

ANN: "Ici Fort Lamy, Radiodiff. Nationale Tchadienne émettant dans les bandes..." or "Ici Fort Lamy, Radiodiff. Nationale Tchadienne" – INT-SIG: Balafon – V. by letter. Rp. Recordings accepted – F.PL: Increase of Nat. net. through satellite st's. International net – PUB: Prgr.schedule (weekly).

COMORES ISLANDS (French)

L.T: GMT+3 h – Pr.L: French, Vernaculars.

OFFICE DE RADIODIF. TELEVISION FRANÇAISE (O.R.T.F.)

ADDR: B.P. 29, Dzaoudzi, Ile Mayotte, Comores. Te: 25 – L.P: Dir. Gen: A. Sabas.

STATIONS: 3331kc 90.06m – 7260kc 41.32m 4kW.

HOME SCE. in French, Comorian: W 03.30–05.00 on 3331kc, 09.00–10.30 on 7260kc, 15.30–19.00 on 3331kc. Sun 05.00–10.45 on 7260kc, 14.30–19.30 on 3331kc – N: French 04.00, 09.30, 19.00. Comorian 03.45(Sun 05.15), 17.15 – Wrp: 09.30 – T.S: 04.00, 09.30, 17.00 – ANN: "Ici les Comores – Office de Radiodiff-Télévision-Francaise, station de Dzaoudzi – INT-SIG: Folklore Music played on native instrument – V. by letter. Rp. Recordings accepted – PUB: Prgr. schedule (monthly).

CONGO (Dem. Rep. of)

L.T: Leopoldville, Coquilhatville: GMT+1 h; Elisabethville, Stanleyville, Bukavu, Luluabourg: GMT+2 h – Pr.L: French, Lingala, Kikongo, Tshiluba, Swahili.

RADIODIFFUSION DE LA REPUBLIQUE DEMOCRATIQUE DU CONGO (Gov.)

ADDR: Nat. Service: B.P. 3171. Leopoldville. Te: 3171.

STATIONS:

kc	m	kW	kc	m	kW	kc	m
1331	225.4	1	4880	61.48	7.5	11795	25.43
4725	63.49	50	7170	41.84	10	11835	25.35

NATIONAL PRGR: On 1331/7170/11795kc 04.00–07.30(Sun 09.00), 10.00–13.00(Sat/Sun 15.00), 15.00–23.00. On 4725kc: 04.00–07.30(Sun 09.00), 17.00–23.00. On 4880kc: 04.00–0.7.30(Sun 09.00). On 11835kc: 04.00–07.30(Sun 09.00), 10.00–13.00.

N: 04.30, 05.30, 06.30, 10.30, 11.30, 12.30, 16.30, 18.30, 19.30, 20.30, 22.45 – English: 04.45, 05.45, 06.45, 10.45, 11.45, 12.45, 16.45, 18.45, 20.45, 22.00.

ANN: F: "Ici Leopoldville, Radiodiff. de la République Democratique du Congo" – INT-SIG: Tam Tam (native xylophone beat).

REGIONAL STATIONS (in French and reg. languages):

R. Coquilhatville: Addr: B.P. 1061, Coquilhatville.
5993kc 50.05m 10kW: 05.00–07.00, 10.00–13.00, 15.30–21.00.
N. in French: 11.45 – Ann: "Ici Coquilhatville, station Interprovinciale de Coquilhatville" – V. by letter.

R. Bukavu: Addr: B.P. 475, Bukavu.
4839kc 61.99m 10kW: 04.00–06.00, 10.00–12.00, 15.00–20.00(Sat/Sun 22.00).

R. Kasai: Addr: B.P. 708. Luluaborg. Te: 2417. Telex: 14(CP) – L.P: St. Dir: L. E. Wanya. Dir. Tec: E. U. Tshudiakuna.
Station: 6125kc 48.98m 3/10kW.
Home Sce. in French & Vernaculars: 04.00–06.00, 10.00–11.00, 17.00–20.00. N. in French: 04.50, 05.30*, 10.30*, 17.00, 18.30*, 19.45. * rel.
Leopoldville. Ann: "Ici la Radiodiff. Nationale Congolaise, Poste interprovincial du Kasai" – V. by letter. Rp. Recordings accepted.

R. Stanleyville: Addr: B.P. 1745, Stanleyville.
6085kc 49.30m 10kW: 04.00–06.30(Sun 07.00), 10.00–12.30(Sat/Sun 13.00), 15.30(Sun 15.00)–20.00(Sat. 22.00).

R. Interprovinciale du Katanga. Addr: B.P. 7296, Elisabethville.
Stations: 5958kc 50.33m 20kW – 11865kc 25.28m 10kW.
Home Sce. in Kiswahili, French, Tshiluba: 04.00–07.00(Sun 08.00), 10.00–12.00(Sat/Sun 13.00), 14.30–20.00. N. in French: 05.30, 06.30, 10.30, 11.30(Sat/Sun only), 16.30, 18.30. Kiswahili: 05.00, 11.00, 16.00. Foreign Sce. ("La Voix de la Fraternite Africaine"): D 17.00–20.00 in French on 11865kc. N: 17.30, 19.30 – Ann: Home Sce: "Ici Elisabethville, R.diffusion de la Rép. Démocratique du Congo, st. interprovinciale du Katanga". Foreign Sce: "Ici Elisabethville, la Voix de la Fraternite Africaine". Int. Sig: Home Sce: Kalimba, Kizanzi drums. Foreign Sce: Continuous drumming.

R. Bakwanga: 7295kc 41.12m 10kW.
Home Sce. in French, Tsiluba: 04.00–06.00, 10.00–12.15, 16.00–19.00. N. in French: 05.15, 11.15, 18.15. Tshiluba: 04.45, 10.45, 17.45 – Ann: "Ici Bakwanga, st. interprovinciale de la Rdiff. de la Rép. Démocratique du Congo".

Brown Boveri, Switzerland, delivered 10kW tr's to Leopoldville (3×10), Bukavu, Stanleyville, Coquilhatville, Luluabourg, Elisabethville (3×10); 100kW tr. (Elisabethville) – The Marconi Company Ltd, G.B: One 10kW tr – Wilh. Franz KG, Germany: EMT studio equip.

RADIO ELISABETHVILLE (Priv.) Addr: B.P. 1938, Elisabethville, Rép. Dém. du Congo/Leo – L.P: Dir. Gen: M. Copette.
Stations: 9Q2AB 6035kc 49.71 m 0.2kW – 7200kc 41.67m 0.35kW.
Home Sce. in French: Sun 13.00–16.00 – Ann: "Ici R. Elisabethville, station privée de radiodiff." – V. by letter.

RADIO COLLEGE (Rlg-educ.)

FI: by free will offerings – ADDR: Collège S. Francois de Sales, B.P. 296, Elisabethville. Te: 5301 – L.P: Dir. Gen. R. R. PP. Salesiens. Dir. Tec: R. P. J. Dethier. Dir. of Prgr's: R. P. A. Richard.
STATIONS (Systems: Bauer, Gates): OQ2AC.
1500kc 200m 1kW – 3390kc 88.50m 1kW – 5050kc 59.41m 1kW – 7200kc 41.67m 1kW – FM: 95Mc 0.05kW.
HOME SCE. in French, Swahili, Kibemba: W 15.30–19.30, Sun 07.00–10.00, 18.30–19.30.
Catholic N: Sun 09.15, Mon/Wed/Fri 18.30 – Two prgr's are radiated simultaneously Mon–Fri at 16.00–17.00: Blue Prgr on 1500/5050kc, Green Prgr. on 3390/7200kc.
ANN: "Ici R. Collège, station de radiodiff. privée" – INT-SIG: At opening "Marche du Baron Tzigane" (by Joh. Strauss), at closing "Marche Indigo" (by Joh. Strauss) – V. by letter – PUB: Monthly prgr. bulletin.

RADIO LEO (Rlg-Educ.)

(Owned and operated by College Albert Ier)
ADDR: B.P. 3165, Leopoldville-Kalina. Te: 5395. Cable: Provac – L.P: Dir. Gen: L. Rinen, S. J. Dir. Tec: A. Granville.
STATION (System: CFTH): OQ2AA 11720kc 25.60m 10 or 50kW.
HOME SCE. in French: Sun: 08.00–10.00.
ANN: "Ici R. Leo, Leopoldville, Rép. Democratique du Congo, st. privée du College Albert Ier, longueur d'ondes 25m 60 ou 11720kc" – INT-SIG: First Movements of Andante non troppe of "Duo für Glasharmonika und Laute" in G minor by J. Naumann.

RADIODIFFUSION UFAC (Priv.):

ADDR: B.P. 97, Elisabethville. Cable: UFAC – L.P: Dir. Gen: J. Freart. St. Mgr: C. Jean. Dir. Tec: S. Daniel.
STATION: OQ2AD 4980kc 60.25m 9kW.
HOME SCE. in English, French, Dutch, Swahili: 15.45(Sun 11.00)–19.30. English: D 16.00–17.00 – French: W 15.45–16.00, 17.00–19.30. Sun 11.00–15.30, 17.00–17.30 – Dutch: Sun 17.00–19.30 – Swahili: Sun 15.30–16.00 – ANN: F: "Ici R. diff. UFAC a Elisabethville, Rep. Democratique Congo". E: "This is R. UFAC at Elisabethville, Democratic Republic of Congo" – V. by letter. Rc. in E or F.

CONGO (Rep.)

L.T: GMT+1 h – Pr.L: French, English, Portuguese.

RADIO BRAZZAVILLE (O.R.T.F.)

ADDR: B.P. 108, Brazzaville. Te: 2234. Cable: Radiodiffusion. L.P: St. Mgr: H. Defroyenne. Dir. Adm: A. Taillade. Chief of Inf: L. Baissat.

STATIONS:

kc	m	kW	kc	m	kW	kc	m	kW
4795	62.47	4	11710	25.62	50	15190	19.75	50
5970	50.25	4	11725	25.58	50	15445	19.43	50
7105	42.22	4	11930	25.15	50	17720	16.93	50
9730	30.83	15	11970	25.06	4	21500	13.90	2/50

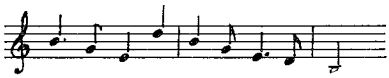
INTERNATIONAL SERVICE

I=Africa; II=Madagascar; III=Far East. * 2kW; ** Sun only.

Times	Areas	kc	N
05.00–07.30	I+II	4795/5970/9730 11725/15445	F: 05.00, 06.00, 07.00 E: 05.15, 06.15
11.00–12.00	I	11970/15445	E: 11.00, P: 11.45
11.00–13.00	I+II	7105/11710/15190 21500*	F: 11.30, 12.30
13.00–14.00	III	17720/21500	E: 13.00; F: 13.30
14.00–17.00**	I	7105/11710/17720 21500	"Sport & Music"
17.30–21.00	I+II	5970/7105/9730 11930/15190/21500*	F: 17.30, 18.05, 19.00, 20.30, P: 18.45, E: 19.15

ANN: F: "Ici R. Brazzaville". E: "This is R. Brazzaville broadcasting from the Congo". P: "Aqui R. Brazzaville, Brazzaville".
INT-SIG: Five different notes played on a native instrument (Kizani) consisting of several vibrating iron bars attached to a wooden box – V. by QSL-card or letter. Rp. – PUB: Prgr. sched. free.

RADIODIFFUSION TELEVISION CONGOLAISE (Gov.)
ADDR: B.P. 2241, Brazzaville. Te: 2408. Cable: Radio Congo. L.P: Dir: Malonga. Dir. Tec: M. Fournier. Dir. Prgr: Bitouloulou.
STATIONS (System: TRT, CFTH).
1484kc 202.2m 4kW – 3264kc 91.90m 4kW
4843kc 61.95m 25kW – 7175kc 41.81m 25kW
9715kc 30.88m 50kW.
HOME SCE. in French, Lingala, Munukutuba: W 04.30–06.30 on 1484/3264/4843kc, 11.00–13.00 on 1484/7175kc, 15.30–21.00(Sat 22.00) on 1484/3264/4843kc. Sun 04.30–07.00 on 1484/3264/4843kc, 07.00–17.00 on 1484/7175kc, 17.00–21.00 on 1484/3264/4843kc. On 9715kc: D 17.00–19.00. N: French: 04.45, 05.30, 09.15(Sun), 12.00, 17.00(W), 17.15(Sun), 18.30, 20.45. N. in Lingala/Kikongo: 11.15, 17.15(W), 17.30)Sun), 17.45(Sun) – Wrp: 19.00 – Mbg: 11.30 – L.L: "Le Français par la Radio": Mon, Wed 16.00, Tues 05.45, Fri 05.30. – ANN: "Ici la voix de la Revolution Congolaise émettant de Brazzaville".
V. by QSL-card. Rp. Recordings accepted – INT-SIG: Zanzi solo (native instrument).



DAHOMEY (Republic)

L.T: GMT+1 h – Pr.L: French, Vernaculars.
RADIODIFFUSION DU DAHOMEY (Gov.)
Fee: 500 CFA – ADDR: B.P. 366, Cotonou. Cable: Radiodahomey. Te: 2040. Telex: 208 – L.P: Dir: H. da Piedade. Dir. Tec: M. Detien-Honvo. Dir. Prgr: I. Zounon. Dir. N: Aniambossou.
STATIONS: Systems: Gates (1kW), TRT (4kW), AME (30kW), TELECO (0.1kW). *) Parakou.

1475 kc	203.4 m	1 kW	–	3270 kc	91.74 m	4 kW
*1598 kc	188.0 m	0.1 kW	–	4870 kc	61.60 m	30 kW

HOME SCE. in French, Fon, Yoruba, Dendi, Bariba, Mina: Mon–Fri 05.15–06.45, 11.15–12.45(Thurs 13.00), 16.45–22.00; Sat 05.15–06.45, 12.00–23.00; Sun 07.00–22.00 – N: French: W 05.35, 06.15, 11.40 (not Sat), 12.40(Thurs 12.55), 15.00(Sat), 16.45, 19.00, 21.15, 21.55, 22.15 (Sat). Sun 08.00, 11.40, 14.00, 17.00, 19.00, 21.55. Vernaculars: 12.10–12.25 (Sat 13.10–13.25), 16.50–18.25 (Sun 17.15–18.50) – L.L: (English): 05.55–06.15(Mon, Wed, Fri), 18.25–18.45(Tues, Thurs, Sat) – Magazine du Dahomey: Sun 11.00 – Educational Prgr: Mon, Wed 19.30
ANN: French: "Ici Cotonou, Radiodiff. du Dahomey émettant sur..."
INT-SIG: Dahomey Tam-Tam – V. by QSL-card. Rp. Recordings accepted – PUB: Prgr.schedule (weekly).

EGYPT (United Arab Rep.)

L.T: GMT+2 h (Su. 1/5–30/9 GMT+3 h) – Pr.L: Arabic.
U.A.R. BROADCASTING & TV CORPORATION (Gov.)
FI: By state subsidy, adv, Electric Current taxes – AD: allowed in Popular-Cultural Prgr. and Middle East Prgr – ADDR: Prgr. Authority: U.A.R. Broadc. & TV Corpo, 4 El Sherifein Str, Cairo. Cable: "Kahiradio". Engineering Authority: General Egyptian Organisation for Cinema & R. Engineering: TV-Bldg. Cornish Rd. Cairo. Cable: Cibrotev – L.P: Prgr. Authorities: Dir. Gen: M. A. Hamad. Dir. Radio Prgrs: A. H. El-Hadidy. Dir. Adm: M. M. Taifour. Gen. Contr. of Research and Internat. Rel: M. El-Bassiouni. Eng. Authorities: Chmn. of Board of Dir's: S. Amer. Dir. Egyptian Organisation for Cinema & R. Engineering: A. Zayan. Dir. Broadc. & TV Engineering: A. Kandeel.
STATIONS: Medium Waves * 150/300/450kW.

	kc	m	kW		kc	m	kW
Cairo III	557	538.6	50	Cairo II	980	306.1	5
Beni Suef I	602	498.4	50	Minia	1079	278.0	5
Batra I	620	483.9	*	Luxor	1079	278.0	5
Asyut II	710	422.0	100	Sohag	1142	262.2	5
Cairo I	773	388.1	500	Assuan I	1178	254.7	10
Batra II	818	366.7	*	Quena	1178	254.7	10
Cairo V	872	344.0	50	Alexandria	1277	234.9	10
Cairo IV	926	324.0	10	Assuan II	1277	234.9	10

Short Waves: 50/70/90/100kW.

kc	m	kc	m	kc	m	kc	m	kc	m
6080	49.34	9475	31.66	9700	30.93	9815	30.57	11915	25.18
7050	42.55	9495	31.60	9715	30.66	9819	30.55	11940	25.13
7075	42.40	9515	31.53	9750	30.77	11745	25.54	11980	25.04
7140	42.02	9550	31.41	9755	30.76	11805	25.41	12050	24.90
7215	41.58	9570	31.35	9775	30.69	11855	25.31	15115	19.85
7265	41.29	9685	30.98	9790	30.64	11870	25.27	15210	19.72
15260	19.66	15360	19.53	17690	16.96	17760	16.89	17865	16.79
15290	19.62	15435	19.44	17710	16.94	17785	16.87	17875	16.78
15310	19.60	15475	19.39	17720	16.93	17805	16.85	17905	16.76
								17920	16.74

HOME SERVICE
MAIN ARABIC PRGR:
03.55–06.00 on 818/980/1079/1142/1178/1277/7075/11940/15475kc.
06.00–07.00 on 818/980/1079/1142/1178/1277/9775/11940/15475kc.
07.00–08.00 on 818/980/1079/1178/1277/9775/11940kc.
08.00–11.00 on 818/980/1079/1142/1277/9775/11940kc.
11.00–14.00 on 818/980/1079/1142/1178/1277/9775/11940/15475kc.
14.00–22.00 on 818/980/1079/1142/1178/1277/9790/11940/19475kc.
22.00–23.45 on 773/818/1079/1142/1178/1277/9790/11940/15475kc.
N: 05.00, 12.30, 15.00, 18.30, 21.00, 23.30 – Comm: 05.00, 12.45, 15.30, 18.45 – Nat. Music: 05.25, 09.30, 11.00 – Prgr. Preview: 04.44, 14.45 – T.S: Cairo University Clock at the beginning of the main news bulletins.
VOICE OF ARABS:
03.00–08.00 on 620/1178/7050/11745kc, 08.00–09.00 on 710/1178/7050/11745kc, 09.00–10.00 on 710/1178/11745/15115kc, 10.00–13.00 on 620/1178/11745/15115kc, 13.00–14.00 on 620/1178/7050/11745kc, 14.00–00.20 on 620/1178/7050/9495/9550/11745kc.
N, Comm: 03.30, 04.00, 04.30, 11.30, 13.15, 13.50, 15.00, 17.00, 18.00, 19.30, 20.30, 23.00, 00.20 – Palestine Prgr: 05.00–07.00, 14.00–15.00.
SOUDANESE PRGR: 04.00–06.00 on 710/9475kc, 13.00–15.15 on 872/9475/11915kc – N. & Commentary: 06.15, 13.20, 15.30.
SECOND PRGR. (Cultural): 19.30–22.45 on 872kc.
POPULAR CULTURAL PRGR: 14.00–23.30 on 710kc – N: 14.30, 16.45, 22.30.
ALEXANDRIA REG. PRGR: 15.00–22.00 on 1277kc – N: D 17.30, 19.30.
FOREIGN LANGUAGE PRGR. (Local Service) on 557kc.
05.00–08.30, 08.30–10.30 (Fri & sun only), 10.30–22.30(Tues/Sat 23.00) N, Comm: English: 05.30, 12.30, 18.00 – French: 06.00, 12.00, 19.00 – German: 05.45 – Greek: 05.00, 13.00 – Italian: 05.15.
KORAAN PRGR: 04.00–09.00 & 12.00–21.00 on 602/9755kc.
MIDDLE EAST COMM. PRGR: 04.00–06.00 on 872kc, 13.30–16.30 on 773kc, 16.30–19.30 on 872kc, 19.30–22.00 on 773kc – N, Comm: 05.00, 14.00, 15.00, 16.00, 17.00, 18.00, 20.00, 21.00, 22.00.

FOREIGN SERVICE
To So. & So. Ea. Asia: 10.30–15.30 on 17920kc (Arabic 10.30, Bengali 12.30. English: 13.30, Urdu 14.30), 11.00–14.30 on 17690kc (Malayan 11.00, Thai 11.45, Indonesian 12.30, Pushtu 13.30).
To Ea. & C. Africa: 14.45–17.00, 17.45–19.45 on 17785kc (Amharic 14.45, Swahili 15.30, Lingala 17.45, Sosotho 18.30, Portuguese 19.00), 15.45–18.30 on 17920kc (Nianga 15.45, Shofa/Sindbiely 16.15, Somali 16.45, English 17.45).
To W. Africa: 18.45–21.45 on 15290kc (French 18.45, Folani 19.45, English 20.45), 20.15–21.45 (Hausa) on 17690kc.
To Mid. East: 16.30–17.30 (Kurdish) on 9475kc, 17.30–18.30 (Turkish) on 11915kc, 17.00–19.30 (Persian) on 11980kc.
To Europe: 18.30–19.30 (Italian) on 9475kc, 19.30–23.30 on 11915kc (French 19.30, German 20.30, English 21.30, Arabic 22.30).
To No. & So. America: 00.00–00.45 (Portuguese) on 11940kc, 00.45–02.45 on 15475kc (Spanish 00.45, Arabic 01.30).
Hebrew Prgr: 04.00–05.00, 14.00–17.00 on 557kc.
Dictation Speed News: 06.00–06.30 on 7075/9475kc Arabic, 06.30–07.00 on 7075/9475kc English, 13.30–13.50 on 7075/9495kc Arabic.
INT-SIG: Camel Bells – V. Re. wanted. They are answered by QSL-card. Reports should be addressed to Propagation & Monitoring Dept. U.A.R. Broadcasting and TV, P.O. Box 1186, Cairo – PUB: Prgr-schedules four times per year. Weekly and quarterly magazines in Arabic.

ETHIOPIA

L.T: GMT+3 h – Pr.L: Amharic, Arabic, English, Somali.
RADIO ETHIOPIA (Gov.)
AD: After N in all languages – ADDR: R. Division, Ministry of Information, P.O. Box 1364, Addis Ababa. Te: 15933. Cable: Ethiopress – L.P: Vice Min: Dr. M. Haile. Dir. Gen: N. Haptewold. Dir. Prgr: N. Gebrenariam. Dir. Tec: B. Desta. Tech. Supervisor: T. Y. Dafla.
STATIONS: *Asmara, **Harrar. Others: Addis Ababa.

kc	m	kW	kc	m	kW	kc	m	kW
**840	357.1	100	5056	50.33	10	7265	41.29	10
870	345.0	100	6185	48.50	100	9610	31.22	10
*940	319.1	50						

HOME SCE: Amharic: 04.30–05.30 on 840/870/940/6185/7265kc, 11.00–12.00 as 04.30 plus 9610kc, 16.30–17.00 on 840/6185kc, 17.00–20.00 on 840/870/940/6185kc – Arabic: 15.00–16.00 on 840/870/940/6185kc – English: 10.15–11.00 on 840/870/940/6185/9610kc, 16.00–17.00 on 870/940/7265kc–Somali: 03.45–04.30 on 840/870/6185/7265kc, 12.00–13.00 on 840/870/6185kc, 16.00–16.30 on 840/6185kc.

Advertisement

ETLF

RADIO VOICE OF THE GOSPEL

The Lutheran World Federation Broadcasting Service

daily broadcasts in –

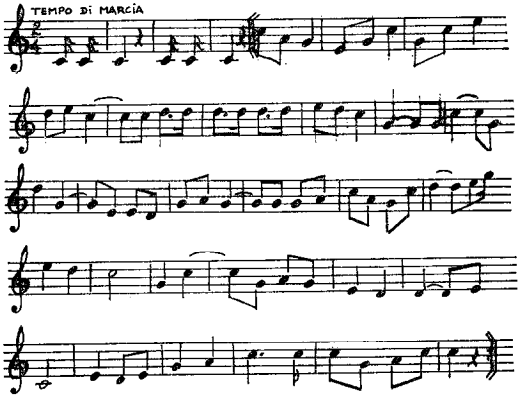
Afrikaans, Amharic, Arabic, English, Hausa, Hindi, Malagasy, Nyanja, Persian, Sinhalese, Sotho, Swahili, Tamil, Telugu, Zulu

beamed to –

Africa
India
Middle East

Write to:
Station ETLF
Box 654
Addis Ababa, Ethiopia

ANN: E: "This is the Internal Service of R. Ethiopia". F: "Ici R. Ethiopie". Amharic: "Yih ye Ethiopia R. New". Somali: "Halkani wa R. Ethiopia". Arabic: "Huna saut Ethiopia" – INT-SIG:



V. by QSL-card. Re. in E, F or Amharic – PUB: Ethiopian Broadc. Sc's Prgr. schedule (twice a year).

RADIO VOICE OF THE GOSPEL – LUTHERAN WORLD FEDERATION BROADCASTING SERVICE (Educ, Rlg.)
FI: By free will offerings by churches – ADDR: P.O. Box 654. Addis Ababa. Cable: Lutherworld. Te: PBX 47190.
L.P: Dir. Gen: Dr. Sigurd Aske. Dir. Prgr: U. Fick. Dir. Tec: E. Kraemer. Adm: T. Månson. Chmn. of the Board: Dr. Franklin Clark Fry.
STATIONS (System: Brown, Boveri): ETLF 2 tr's each 100kW.

kc	m	kc	m	kc	m
6010	49.92	9730	30.83	11875	25.26
9565	31.36	9755	30.75	11890	25.23
9705	30.91	9765	30.72	15410	19.47

Schedule: November 65–February 66:

Times	kc	Areas	Languages
13.15–14.00	9755	Ceylon	English, Sinhalese
14.00–15.00	9755	India	Telegu, Hindi
13.30–14.30	15410	India	English, Tamil
14.30–16.00	9705	Ea. Arab	Arabic
15.00–15.45	9565	Madagascar	Malagasy
15.45–16.55	6010	Ethiopia	English, Amharic
16.00–16.30	9730	Iran	Persian
16.30–17.15	9765	Malawi	English, Nyanja
17.00–18.30	11890	West Arab	Arabic
17.15–18.15	9565	Ea. Africa	Swahili, English
18.15–19.00	9705	So. Africa	African languages
19.00–19.15	9705	So. Africa	English
18.30–19.45	11875	We. Africa	Hausa, English

NEWS: English: 13.15, 13.30, 15.45, 16.30, 18.00, 19.00. Amharic: 16.02. Swahili: 17.30.
Medium Wave Sce. (for Addis Ababa): 16.15–20.00 on 995kc 1kW.
ANN: "This is R. Voice of the Gospel, ETLF, Addis Ababa, Ethiopia"
INT-SIG: First four notes of "A Mighty Fortress" (three high and one low) on drums – V. by QSL-card. Recordings accepted – PUB: Newsletter (4 times a year).

GABON (Republic)

L.T: GMT+1 h – Pr.L: French.
RADIODIFFUSION TELEVISION GABONAISE (Gov.)
FI: By Gov – ADDR: P. B. 150, Libreville. Te: 3325. Cable: Radio-Gabon – L.P: Dir. Gen: G. Rawiri. Dir. R. Metayer.
STATIONS (System TRT):
1313kc 228.5m 1kW – 4777kc 62.80m 30kW
1520kc 197.3m 1kW – 7270kc 41.27m 4kW
HOME SERVICE in French: Nat. Net: W 05.00–06.30 on 1520/4777kc, 10.30–13.30 on 1520/4777/7270kc, 17.30–21.30 (Sat 16.00–23.00) on 1520/4777kc. Sun 07.00–17.00 on 1520/4777/7270kc, 17.00–23.00 on 1520/4777kc – N: 05.45(W), 12.00, 13.25(W), 19.00, 19.35(W), 20.55(W).
Reg. Netw: D 19.00–21.00 on 1313kc – ANN: "Radiodiff. Télévision Gabonaise émettant de Libreville et Franceville" – V. by letter – F.PL: Reg. st's at Oyem, Port-Gentil, sw-st using the 5Mc band – PUB: Prgr. schedule (weekly).

R. MOANDA-FRANCEVILLE (Gov.)
ADDR: B.P. 150, Libreville – STATION: 6030kc 49.75m 4kW. Rel. of R. Nationale Gabonaise.

GAMBIA (British)

L.T: GMT – Pr.L: English, Mandinka, Wolloff, Vernaculars.
RADIO GAMBIA (Gov.)
ADDR: Bathurst. Te: 693. Cable: "Broadcasts" – L.P: Broadc. Adviser: A.P. Cox (on secondment from BBC). Broadc. Officer: A. M. Lowe. Dir. Tec: P. J. Warren.
STATION (System: Marconi): 4820kc 62.24m 3.1kW.
HOME SCE. in English, Wolloff, Mandinka: Mon–Fri 17.10–20.30. N. in English: 18.00(BBC), 18.09(local), 20.00(BBC). N. in Wolloff: 18.17. N. in Mandinka: 18.27.
ANN: E: "This is R. Gambia broadc. from Bathurst on a freq. of 4820kc in the 60 m.b." – INT-SIG: Music played on the cora, an indigenous harp-like instrument – V. by letter. Re. in E, F or Arabic. Recordings accepted – PUB: Prgr.schedules occ.

GHANA

L.T: GMT – Pr.L: Akan, Ewe, Dagbani, Ga, Hausa, Nzema.
GHANA RADIO AND TELEVISION CORPORATION
FI: By appropriation and subscriptions from wired broadc. –
ADDR: Broadc. House, P.O. Box 1633, Accra. Cable: Broadcasts. Te: 77551 – L.P: Dir. of Broadc: W. F. Coleman, B.Sc, M.I.E.E, M.B.E. Eng-in-Chief: J. K. Asare. B.Sc, A.M.I.E.E. Head of Nat. Sce: E. Sam, BA. Head of External Sce: J. Asmah B.Sc.

STATIONS:

kc	m	kc	m	kc	m	kc	m
3240	92.60	4915	61.03	9545	31.43	15190	19.75
3280	91.45	6030	49.75	9690	30.96	15285	19.63
3350	89.56	6070	49.42	9760	30.74	17910	16.75
3366	89.13	6110	49.10	11735	25.56	21545	13.92
4824	62.19	6130	48.94	11800	25.42	21720	13.81

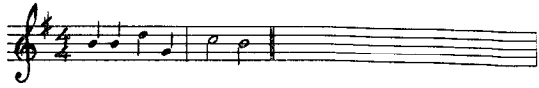
NATIONAL SCE: One 1.3kW tr, one 20kW tr, 6×10kW tr's: 05.30–09.00 on 3350/3366/4824/4915kc, 09.00–16.00 on 4824/4915kc, 16.00–23.00 on 3350/3366/4824/4915kc – N: English: 06.00, 07.00, 11.00, 13.00, 18.00, 20.00, 21.00, 22.30. Ghana languages: 06.30, 07.30, 14.30, 15.30, 19.15.
EXTERNAL SCE: 4×100kW, 2×250kW tr. (Ejura).
Areas: I=No.Am; II=Caribbean; III=So.Af; IV=Ce.Af; V=Australasia; VI=Ethiopia/Somalia/Sudan/India/Pakistan; VII=Japan/China; VIII=F.East; IX=We.Af; X=Europe; XI=Ea.Af; XII=Congo/Malagasy; XIII=Angola/Mozambique; XIV=So.Am; XV=M.East/Sudan/U.A.R; XVI=No.Af.

Arabic	kc	Area
04.00–04.45	6130	XV
05.30–06.15	9545	XVI
16.00–16.45	21545	XV
20.00–20.45	9545	XVI
Bambara		
06.00–06.45	6070	IX
16.45–17.30	6070	IX
19.00–19.45	3240	IX
English		
03.00–03.45	6130	VII
	6070	XI
03.30–04.30	6110	I
04.30–05.15	9760	III
	9545	VIII
05.30–07.30	3240	IX
06.00–06.45	9760	IV
06.45–07.30	9545	X
13.30–14.30	17910	VIII/XI
14.00–20.15	6130	IX
15.00–15.45	17910	V
	21545	VI
	21720	XI
16.45–17.30	15285	XI
18.15–19.00	15285	VIII/XI
19.45–22.15	3240	IX
20.00–21.00	9760/	
	11800	II
20.45–22.15	9545	X

French	kc	Area
03.45–04.30	6070	XII
06.00–06.45	9690	XII
06.00–07.30	3280	IX
17.30–18.15	11800	XII
	6070	IX
19.00–19.45	11800	XII
	9545	X
19.00–22.15	6070	IX
21.00–22.15	3280	IX
Hausa		
05.15–06.00	3280	IX
	6070	IX
15.00–16.30	6070	IX
18.15–19.00	3240	IX
	6070	IX
Portuguese		
03.00–03.45	6030	XII
05.15–06.00	9760	XIII
06.45–07.30	6070	IX
14.00–14.45	21545	XIII
	15190	XIII/XIV
17.00–17.45	11735	IX
	21545	XIII
Swahili		
05.00–05.45	9690	XI
13.30–14.30	21720	XI
15.45–16.45	21720	XI
17.30–18.15	15285	XI

NEWS: English: 03.00, 03.30, 04.30, 06.00, 06.45, 07.00, 13.30, 14.00, 15.00, 16.00, 16.45, 17.00, 18.00, 18.15, 20.00, 20.45, 21.00, 22.00 – French: 03.45, 06.00, 07.00, 17.30, 19.00, 20.00, 21.00 – Portuguese: 03.00, 05.15, 06.45, 14.00, 17.00 – Hausa: 05.20, 15.00, 16.00, 18.15 – Arabic: 04.05, 05.35, 16.00, 20.00 – Swahili: 05.00, 13.30, 15.45, 17.30 – Bambara: 06.00, 16.45, 19.00.

ANN: "This is the Nat. Sce. of the Ghana Broadc. Corpo." preceded by drumming or "This is R. Ghana" – INT-SIG: Guitar: First few bars of Ghana National Anthem



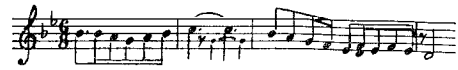
V. by QSL-card and letter. Re. on technical matters to Propagation Eng, on prgr's to Head or External Sce. Recordings accepted – PUB: "Radio Review & TV Times" (weekly), External Service schedule.

GUINEA (Republic)

L.T: GMT – Pr.L: French, Vernaculars.
RADIODIFFUSION NATIONALE (Gov.)
ADDR: B.P. 617, Conakry. Cable: Radio Guinée. Te: 3366.
STATIONS:

kc	m	kW	kc	m	kW	kc	m	kW	kc	m	kW
1403	213.8	4	3385	88.63	50	6155	48.74	18	9650	31.09	50
3376*	88.89	50	4910*	61.10	18	7125*	42.11	18	11965*	25.07	50

* not in use during rain season (June–October).
HOME SCE. in French, National languages, English, Creole-English, Arabic, Portuguese, Creole-Portuguese, Ouolof, Bambara, Mandjake: W 06.00–08.00, 12.30–13.30, 16.00–24.00, Sun 08.00–14.00, 16.00–24.00. On 1403/4910kc: as above. On 3385kc: 16.00–24.00. On 6155kc: W 12.30–13.30, Sun 08.00–14.00. On 9650kc: W 06.00–08.00, D 16.00–24.00.
N: French: 07.00(W), 09.15(Sun), 12.45, 17.00(W), 20.00, 23.30(Mon–Fri). English: D 20.30–20.40. Creole-English: Sat 16.20.
ANN: F: "Ici la Voix de la Revolution (before news)" or "Ici Conakry, Radiodiff. Nationale" or "Ici Conakry Radiodiff. de la Republique de Guinee". E: "Here is the Voice of the Revolution".
INT-SIG: First movement of the popular heroic song "Alpha Yaya" (first movement of Guinean National Anthem) on Guitar:



V. by letter.

GUINEA (Portuguese)

L.T: GMT−1 h – Pr.L: Portuguese.
EMISSORA PROVINCIAL DA GUINE (Gov.)
ADDR: Av. da Republica, Bissau – L.P: Pres: Eng: A. Henrique Salgado. Dir. Prgr: L. de Sousa Santos.
STATIONS: (System: Continental Electronics):
1050 kc 285.0 m 1 kW – 5017 kc 59.80 m 10 kW.
HOME SCE: 12.00(Sun 09.00)–14.00, 18.00–23.00.
N: 12.00, 18.00, 19.30 – ANN: "Fala Portugal através da Emissora provincial da Guiné Portuguesa, a transmitir em ondas medias, no comprimento de 285m, freq. de 1050kc, e em ondas curtas, em 60m, freq. de 5017kc" – INT-SIG: Guitar – V. by QSL-card or letter. Recordings accepted.

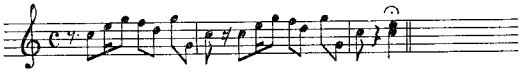
GUINEA (Spanish)

L.T: GMT+1 h – Pr.L: Spanish.
EMISORA DE RADIODIFUSION SANTA ISABEL (Gov.)
ADDR: Apt. 195, Santa Isabel, Fernando Poo. Te: 382.
L.P: Dir. Gen: S. Corredoira Casares.
STATION: 6250kc 48.00m 5kW.
HOME SCE: in Spanish, Pamue, Bubi, Annobonés: 07.00–23.00. Spanish: 07.00–16.00, 19.00–23.00. N: 06.45, 13.20, 20.30, 21.00 (rel. RNE). Annobonés: 16.00–16.30, Pamue: 16.30–17.00, Bubi: 17.30–18.30. English: 18.30–19.00.
ANN: "Desde la isla de Fernando Poo, transmite EAJ205 R. Santa Isabel" – INT-SIG: "Los Voluntarios" – V. by letter.
RADIO ECUATORIAL (Gov, Comm).
ADDR: Apt. 57, Bata, Provincia de Rio Muni. Te: 182. Cable: Radio Bata – L.P: Dir. F. de Anta Franco.
STATION: EAJ206 4926kc 60.90m 5kW.
HOME SCE. in Spanish: W 10.00–14.00, 17.30–22.00(Sat 24.00). Sun 10.00–17.30, 18.00–22.00 – ANN: "Transmite R. Ecuatorial Bata, La Voz de Rio Muni" – INT-SIG: Gong – V. by QSL-card and flag.

No place is too far away for the WRTH
That's why you sales message will have a guaranteed world-wide coverage of radio and TV stations in all countries.

IVORY COAST (Republic)

L.T: GMT – Pr.L: French, Vernaculars.
RADIODIFFUSION TELEVISION IVORIENNE (Gov.)
FI: By Gov – AD: 1% of all prgr's.
ADDR: B.P. 2261, Abidjan. Te: 23514. Cable: Radiocotivoire – L.P: Dir: E. Kouame. Dir. Tec: L. Diallo.
STATIONS: National Netw: 1240kc 242m 1kW.
3242kc 92.54m 25kW – 4940kc 60.73m 10kW.
International Netw: 1493kc 201m 4kW
6015kc 49.88m 100kW – 7215kc 41.58m 1kW – 11820kc 25.38m 100kW.
D.PRGR'S: National Netw: W 06.00–07.30, 12.15–13.30, 17.30–22.30 (Sat 12.15–23.00). Sun 07.00–22.30 on 1240/3232/4940kc.
N. in French: 06.45(W), 12.45, 19.00, 22.25 – Vernaculars (Baoulé, Ebrié, Attié, Dioula, Sénoufo, Mossi, Dida, Gouro, Bété): W 17.45–18.45.
International Netw: 06.30–08.00 on 6015/7215kc, 12.15–13.30 (Sun 18.00) on 7215/11820kc, 18.00–24.00 on 6015/7215kc.
N. in French: 07.00, 12.45, 20.00, 22.55. English: W 18.30–19.00
ANN: "Ici Abidjan, Radiodiff. Television Ivorienne, chaine nationale... or chaine internationale" – INT-SIG: Vibraphone.



V. by QSL-card. Rp. appreciated.

KENYA

L.T: GMT+3 h – Pr.L: English, Swahili, Hindustani.
VOICE OF KENYA (Gov.)
FI: By license payments, adv. and Gov. subvention – ADDR: Box 30456 Nairobi. Te: 24211. Cable: Broadcasts.
L.P: Dir: R. Koske. Chief Eng: R. J. Davey. Dir. Prgr's: S. Kikumu. Pub. Rel. Officer: A. Yakub.
HOME SERVICES
General Sce. (English) from Nairobi: W 03.15–06.25, 09.15–11.15, 13.00–20.01, Sat 03.15–21.00, Sun 04.00–20.00.
863kc 347.5m 10kW: FM: 95.1Mc 1kW: As above.
4885kc 61.41m 10kW: W 03.05–06.25, 13.00–20.01, Sat 03.15–06.15, 12.15–21.00. Sun 04.00–06.15, 12.45–20.01.
7240kc 41.44m 10kW: W 09.15–11.15, Sat 06.30–12.00, Sun 06.30–12.30.
N: 04.00, 06.00, 10.15, 11.00, 16.10 (Sat 16.00, Sun 17.00), 18.00, 18.10(W).
Nat. Sce. (Swahili) from Nairobi: D 03.00–20.00, Sat 03.00–20.00, Sun 04.00–20.00.
750kc 400m 10kW: FM: 92.9Mc 1kW: As above.
4934kc 60.80m 10kW: 03.00–05.00, 14.30–20.00.
7210kc 41.61m 10kW: 05.15(Sun 06.15)–14.15.
Hindustani Sce. (Nairobi): W 03.15–05.00, 09.30–11.00, 14.30–20.00, Sat 03.15–05.00, 09.30–20.00, Sun 05.00–19.30.
683kc 439.2m 5kW: As above.
4855kc 61.79m 5kW: W 03.15–05.00, 14.30(Sat 13.15)–20.00, Sun 13.15–19.30.
7125kc 42.11m 5kW: W 09.30–11.00 (Sat 13.00), Sun 05.00–13.00.
N. in English: D 16.00, 18.00.
Nairobi Reg. Station: D 09.15–10.30, 13.15–19.30.
1268kc 236.6m 5kW: As above
4950kc 60.66m 5kW: D 13.00–19.30.
7150kc 41.96m 5kW: D 09.15–10.30.
Mombasa Station: 791kc 20kW. W 03.30–04.45, 10.00–11.00, 14.00 (Sat 13.30)–20.30, Sun 06.15–11.00, 14.00–20.30.
Kisumu Station:
W 03.30–04.45, 10.00–11.00, 13.30–19.30, Sun 10.00–19.30.
953kc 314.6m 5kW: As above.
4804kc 62.44m 5kW: W 03.30–04.45, 13.30–19.30. Sun 13.15–19.30.
7290kc 41.15m 5kW: W 10.00–11.00, Sun 10.00–13.00.
ANN: All tr's are regularly identified by the words "Voice of Kenya" preceded by the appropriated nat. or reg. service identity. – INT-SIG: Sound of African birds – V. by letter. Re. to Chief Engineer. Recordings accepted.
AKG, Austria, delivered equipment (recorders, microphones).
The Marconi Company Ltd, GB, delivered 2 × 2kW and 4 × 10kW tr's (Nairobi), antennas, studio equipment.

LIBERIA (Rep. of)

L.T: GMT – ¾ h – Pr.L: English, Liberian-Vernaculars.
STATION ELBC, LIBERIAN BROADCASTING CORPORATION (Gov, Comm.)
Man. Agents: Rediffusion Liberia Ltd, London, England.
FI: By adv – ADDR: P.O. Box 594, Monrovia. Te: 649. Cable: Broadcasts – L.P: Gen. Mgr: D. Stuart-Williams. Chief Eng: W. MacDonald.
STATIONS: 650kc 461.5m 10kW.
3255kc 92.15m 10kW – 6090kc 49.26m 10kW.
HOME SCE: 06.15–08.45, 17.45–00.50 on 650/3255kc, 08.45–17.45 on 650/6090kc – N. English: 08.00, 09.15, 13.00, 16.00, 18.00, 21.45, 23.45. N. in African dialects: 18.10. African N. in English: 20.10 – ANN: "This is st. ELBC Monrovia" or "This is the Liberian Broadc. Corpo, Monrovia" – V. by QSL-card.

RADIO STATION ELWA (Non-comm, Cultural Missionary Broadc. Sce. of the Sudan Interior Mission)
FI: Entirely by voluntary gifts of Christian people – ADDR: Box 192, Monrovia. Cable: Evangel – L.P: Gen. Mgr: Rev. D. Reed. Dep. Gen. Mgr: Rev. R. de la Heye. St. Mgr: Rev. W. H. Thompson. Dir. Prgr: J. Pelley. Dir. Tec: H. Ries. Dir. French Dept: M. Weber.
STATIONS (System: Gates):

kc	m	kW	kc	m	kW	kc	m	kW
710	422.0	1	4770	62.89	10	15155	19.80	50
3225	93.05	10	11975	25.05	10/50	21535	13.93	1

HOME SCE. (for Liberia/We. Africa):
English: W 06.12–08.45, 09.15–09.35, 12.42–18.15, 20.15–22.55 on 710/4770kc; 18.15–20.15 on 710kc; 09.00–09.05, 22.30–22.45 on 3225kc. Sun 08.15–17.45, 20.15–22.45 on 710/4770kc; 17.45–20.15 on 710kc; 11.15–13.15 on 3225kc.
N: 07.00*, 09.15*, 13.00*, 16.00*, 17.00, 18.00*, 20.00*, 20.45, 21.45 (710kc), 22.30 (3225kc Sat only).
French: 19.00–20.15 on 4770kc.
Liberian Languages: W 06.12–09.00, 18.12–22.30 on 3225kc; 08.45–09.15 on 710/4770kc. Sun 06.12–11.15, 18.12–22.15 on 3225kc.
FOREIGN SCE:
To Ce. Africa on 11975/21535kc: English: 06.00–07.45(Sun 09.00), 11.00(Sun 10.00)–12.00 (also on 15155kc), 16.30–18.00 (Sun 16.15–18.45). N: 06.00*, 07.00*, 11.00*, 17.00 – French: 05.00–06.00, 08.00–10.00(Sun only), 12.00–13.45 (also on 15155kc) – Nigerian Languages: 07.45–08.00(W only), 13.45–16.30 (also on 15155kc to 15.45) – Twi: 08.00–08.15(Mon–Fri) – More: 08.00–08.15(Sat).
To Congo on 15155kc: English: 15.45–16.15 (Sun 13.45–15.30) – French: 17.00–18.00 – Congo Languages: 16.15(Sun 15.30)–17.00.
To Near East on 15155kc: English: 19.00–19.30(Tues, Wed, Fri 19.15). Greek: 19.15–19.30(Tues, Wed, Fri only) – Arabic: 18.30(Sat/Sun 18.01)–19.00 – Amharic: 18.01–18.30(Mon–Fri).
To No. Africa on 15155kc: English: 21.15–21.45 (Sun 21.30–22.00) – French: 19.35–20.15(Sun 20.30) – Spanish: 20.15–20.30(Mon, Tues, Wed, Sat) – Italian: 20.15–20.30(Thurs, Fri) – Arabic: 20.30–21.15 (Sun 21.30).
To So. America on 15155kc: Portuguese: 22.00–23.00. *=BBC.
ANN: Home- & Foreign Sce: "This is ELWA R. Village broadc. from Monrovia, Liberia". French: "Ici ELWA R. Village, Monrovia, Liberia" – INT-SIG: Sign on music for all freq's: Orchestral version of hymn "What a Friend We Have in Jesus" – V. by QSL-card. Rp. appreciated. Re. in E. or F. Recordings accepted – PUB: R. News Bulletin quarterly.

BBC WEST AFRICAN RELAY STATION (run by the ELBC for the BBC): Relays of the BBC World Sce, French, Hausa & English Sce's for West Africa.
STATION: Monrovia 9555kc 31.40m 10kW: 05.00–08.00, 16.00–22.45.
BBC World Sce: 05.00–05.15, 06.00–06.30, 07.00–07.30, 16.00–17.00, 17.45–18.30, 20.00–20.10, 21.15–22.45. English: 06.30–07.00, 07.30–08.00, 17.00–17.45, 20.10–21.00. French: 05.15–05.45, 18.30–19.30. Hausa: 05.45–06.00, 19.30–20.00, 21.00–21.15.

VOICE OF AMERICA RADIO STATION IN LIBERIA
ADDR: Voice of America, Washington 25, D.C· USA.
Short Wave: Monrovia 50/250kW:

kc	m	kc	m	kc	m	kc	m
3990	75.19	7135	42.05	11705	25.63	15315	19.59
6020	49.83	7195	41.70	11760	25.51	15360	19.53
6035	49.71	7280	41.21	15265	19.66	15445	19.43
6090	49.26	9530	31.48	15270	19.65	21670	13.84
6165	48.66						

D.PRGR: English: 03.00–07.30, 14.00–23.45. French: 19.30–22 00. Swahili: 17.00–17.30, 18.30–19.00. Hausa: 06.00–06.15. Amharic: 07.15–07.30, 15.15–15.30. Arabic: 17.30–18.00, 19.00–19.30 – ANN: "You are listening to the Voice of America from Monrovia".

LIBYA (Kingdom of)

L.T: GMT+2 h – Pr.L: Arabic.
LIBYAN BROADCASTING SERVICE (Gov.)
FI: By Ministry of Information and Guidance – ADDR: P.O. Box 333, Tripoli; P.O. Box 274, Benghazi. Te: 1090 (Tripoli), 3000 (Benghazi). Cable: Idaalibya – L.P: Under Secr, Ministry of Inf. and Guidance: A. Hamouda Seialah. Dir. of Broadc: M. R. Ben Shaban. Prgr. Consultant: O. Ali. Tech. Supervisor: M. Archi.

STATIONS:	kc	m	kW		kc	m	kW
Tripoli	1052	285.1	50	Benghazi	3305	90.77	7.5
Benghazi	1484	222.2	10	Tripoli	6140	48.86	1

HOME SCE. in Arabic: 04.45–07.00, 12.00–22.15 (Fri 04.45–22.15). **N:** 05.30, 06.55, 13.00, 15.30, 17.30, 18.15, 19.30, 21.00, 21.55. Relayed on shortwaves (100kW) on a freq. between 5995 & 6030kc (variable).

ANN: "Hunna Al Idaa Allibia Min Tarablus" (from Tripoli) or "Hunna Al Idaa Allibia Min Benghazi" (from Benghazi) – **INT-SIG:** Prgr's open and close with National Anthem – **V.** by QSL-card or letter – **F.PL:** English, French and Italian prgr's.

BRITISH FORCES BROADC. SCE. BENGHAZI
is operated by the Ministry of Defence to provide a service of inf, entertainment as well as a link with home for H.M. Forces stationed in Benghazi. It is non-comm does not accept adv – **ADDR:** B.F.P.O. 55, Benghazi – **L.P:** St. Contr: D. G. Phillips. Sen. Eng: P. F. Blanchette. Prgr. Org: H. E. Mees.

STATIONS: 833kc 360.5m 1kW – 97.8Mc 4kW (ERP).
D. PRGRS: W 04.00–06.30, 15.30–21.00 (Sat 10.30–21.00), Sun 06.30–21.00. N(BBC): 05.00(W), 06.00(W), 07.00(Sun), 11.00(Sat/Sun), 16.00, 18.00 – **ANN:** "This is the British Forces Broadc. Sce. Benghazi" – **INT-SIG:** "The Waltzing Bugle Boy (Celeste) – **V.** by QSL-card.

BRITISH FORCES BROADC. SCE. TOBRUK
is operated by the Ministry of Defence to provide a sce of inf, entertainment as well as a link with home for H.M. Forces stationed in Tobruk and El Adem. It is non-comm, does not accept adv – **ADDR:** B.F.P.O. 56, Tobruk – **L.P:** St. Contr: K. J. P. Doherty. Sen. Eng: A. P. Harding. Prgr. Org: A. A. Hargreaves.

STATIONS: 1484kc 202.2m 1kW – 1439kc 208m 1kW.
FM: 89Mc *90.2Mc 0.075kW. *) El Adem.
D. PRGRS: W 04.00–08.00, 14.00–21.00. Sun 06.15–10.15, 14.00–21.00. N(BBC): 04.00, 05.00, 06.00, 16.00, 18.00, 20.00 – **ANN:** "This is the British Forces Broadc. Sce. Tobruk" – **INT-SIG:** "The Waltzing Bugle Boy" (Celeste) – **V.** by QSL-card. Recordings accepted.

ARMED FORCES RADIO & TV SCE.

MADEIRA ISLANDS (Portuguese)

L.T: GMT – 1 h (Su. GMT) – **Pr.L:** Portuguese.
RADIO EMISSORA DA MADIRA (Pr.)
ADDR: Picodas Barcelos, Funchal. **Te:** 21883.
STATION (System: Gates): CBS90 1484kc 202m 1kW.
HOME SCE: 12.00–17.30, 19.30–23.30.
ANN: "Aqui, Estação R. da Madeira com o seu emissor CSB90 no comprimento d'ondade 202 metros freq. de 1484kc..." – **F.PL:** 10kW.

POSTO EMISSOR DE RADIODIF. DO FUNCHAL (Pr.)
ADDR: Rua Ponte de S. Lazaro 3, Funchal. **Te:** 1797.
STATION: CSB91 1529kc 196.2m 0.3kW – **HOME SCE:** W 12.30 (Tues, Fri 12.00)–17.00, 19.30–24.00. Sun 10.00–24.00 – **V.** by letter.

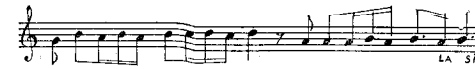
MALAGASY REPUBLIC

L.T: GMT+3 h – **Pr.L:** Malgache, French.
RADIODIFFUSION NATIONALE MALGACHE (Gov.)
ADDR: B.P. 442, Tananarive. **Cable:** R. Madagascar. **Te:** 223–81. **L.P:** Dir: R. Rabesahala. Techn. Counsellor: R. Leruste. Dir. Tec: B. Rakotoarivelo. Dir. Nat. Net I: Andriamamonjy. Dir. Nat. Net. II: J. Rafidinarivo. Dir. 3rd Net: M. Razakandraina.
STATIONS (Systems: TRT+CFTH):

kc	m	kW	Net.	kc	m	kW	Net.	kc	m	kW	Net.
1394	215.12	4	I	3288	91.24	30	II	7105	42.22	30	II
1502	199.7	4	II	6135	48.90	4	I	7155	41.92	30	I
3232	98.82	30	I	6170	48.62	4	II	15270	19.54	100	

HOME SCE. Nat. Net. I (Malgache): W 03.00–05.00, 08.00–11.00, 15.00–19.00. Sat 03.00–20.00. Sun 03.30–19.00. 1394/6135kc: as above; 3232kc: 03.00–05.00 (Sat/Sun 03.00–06.00), 15.00(Sat/Sun 13.58)–19.00(Sat 20.00); 7155kc: 08.00–11.00 (Sat/Sun 06.00–13.58).
N: Mon–Fri 03.05, 04.00, 08.15, 09.30, 10.30, 16.15, 18.30. Sat 03.05, 04.00, 06.00, 07.00, 08.15, 09.30, 10.30, 16.15, 18.30. Sun 05.15, 09.30, 18.30.
Nat. Net. II (French): W 03.30–05.15, 09.00–11.00, 15.00–19.30. Sat 03.30–21.00. Sun 04.00–19.30. 1502/6170kc: as above. 3288kc: 03.30–05.15(Sat/Sun 06.00), 15.00(Sat/Sun 13.58)–19.30(Sat 21.00); 7280kc: 08.00–11.00 (Sat/Sun 06.00–13.58).
N: W 03.45, 04.45, 09.15, 09.45, 10.30, 15.30, 16.30, 19.15. Sun 05.15, 09.15, 09.45, 16.30, 19.15.

FOREIGN SERVICE: Testing 16.00–17.00 (irr.) on 15270kc towards West Africa & Europe in French & English.
ANN: Malgache: "Antananarive ity! Fampielezam-Peom-Pirenena Malagasy, Antoko voalohany". F: "Ici Tananarive – Radiodiff. Nationale Malgache" – **INT-SIG:** "O... Raketaka" played on "Valiha" (typical instrument consisting of bamboo the detached fibres of which are used as strings):



V. by QSL-card. Recordings accepted.
PUB: Prgr.schedule (quarterly).

RADIO UNIVERSITÉ (Gov, Educ.)
ADDR: B.P. 909, Tananarive. **Te:** 22218 – **L.P:** Dir. Gen: R. Roblot. St. Dir: M. Croce. Dir. Tec: B. Rasakaboay.
STATIONS: 1466kc 1kW – 3370kc 89.02m 4kW – 6070kc 49.42m 4kW.
HOME SCE (18/10 65–30/6 66): W 03.15–04.20, 15.30–19.00 on 1466/3370kc, Sat also 11.50–14.20 on 1466/6070kc – **ANN:** "Ici Tananarive R. diff. Nationale Malgache, R. Université" – **V.** by letter – **PUB:** Prgr. schedule free.

MALAWI

L.T: GMT+2 h – **Pr.L:** English, Nyanja, Tumbuka.
MALAWI BROADCASTING CORPORATION
(Independent statutory body) – **FI:** By Gov. subvention, license fees, revenue from adv.

ADDR: P.O. Box 453, Blantyre. **Cable:** Radomalawi. **Te:** 8461 – **L.P:** Chmn: S. B. Somanje. Dir. Gen: Aleke K. Banda. Secr. & Head of Adm: Capt. F. H. Headland, MPSO, MIOM. Chief Eng: G. K. Macdonald, MI.E.E.E. Head of Prgrs: T. L. Neale. Head of N: A. Kachingwe.

STATIONS (System: Gates): *Lilongwe. Others Blantyre/Limbe.

*602 kc	498.4 m	1 kW	–	764 kc	392.6 m	10 kW
3370 kc	89.02 m	10 kW	–	5995 kc	50.04 m	10 kW

HOME SCE: D. 04.00–06.00, 07.00–20.00(Sat 22.00).
On 3370kc: morning+evening; On 5995 kc daytime.
N. in English: 05.00(W), 06.00(Sun), 08.00, 11.00, 16.00, 18.00, 19.50, 20.00(Sat), 21.50(Sat) – **Nyanja:** 04.15, 08.15, 16.30 – **Tumbuka:** 04.30, 08.25, 16.45 – **ANN:** E: "You are tuned to the Malawi Broadc. Corpo. calling from Blantyre. We are broadc. on – – – in the sw band and on mw 393m for listeners in the So. Region, and 500m for listeners in the Ce. Region" – **INT-SIG:** African drums and crowing cock – **V.** by QSL-card – **F.PL:** Improved mw coverage, FM, studio reequipment.

MALI (Republic of)

L.T: GMT – **Pr.L:** French, English, Vernaculars.
RADIO MALI (Gov.)
ADDR: B.P. 171, Bamako. **Cable:** Radio Mali. **Te:** 2474 – **L.P:** Dir: M. Racine Kane. Dir. Tec: M. Keita.
STATIONS (Systems: TRT (4 & 1kW), Tesla (18 & 60kW), CFTH (50kW).

1268 kc	236.6 m	4 kW	7280 kc	41.21 m	18 kW	
1430 –	210.0 –	60 –	9745 –	30.78 –	50 –	
4783 –	62.72 –	18 –	*11750 –	25.53 –	50 –	
4835 –	62.05 –	18 –	**11815 –	25.39 –	50 –	
7145 –	41.99 –	18 –				

* from Nov. 1st; ** until Oct. 31st.
HOME SCE. in French, English, Bambara, Sonraie, Peul, Sarakolé, Ouloff, Tamachek, Maure: W 06.00–08.00 on 1268/1430/4783/4835/9745kc, 12.00–14.00(Sat 17.30) on 1268/1430/7145/7280/9745kc, 18.00(Sat 18.30)–23.00 on 1268/1430/4783/4835/9745kc. Sun: 08.00–17.30 on 1268/1430/7145/7280/9745kc, 18.30–23.00 on 1268/1430/4783/4835/9745kc – **N: French:** 07.00(W), 09.00(Sun), 12.45, 20.15, 22.30. **English:** 12.25, 19.55. **Vernaculars:** D 12.30, 13.15. W 18.45, 19.00, 19.15, 19.25, 19.35.
Special Prgr. on 11750kc: Mon 10.30–11.15.

ANN: F: "Ici Bamako, Radiodiff. Nationale de la République du Mali émettant sur..." – **INT-SIG:** African Music on local instrument "Cora" – **V.** by QSL-card. Recordings accepted. Rp.

MAURITANIA (Republic)

L.T: GMT – **Pr.L:** French, Arabic, Vernaculars.
RADIO MAURITANIA (Gov.)
AD: D 2 × 30 seconds, at 07.00, 20.00 – **ADDR:** B.P. 200, Nouakchott. **Te:** 2164 – **L.P:** Dir. Gen: E. E. Abden. Chief. Eng: J. Bitran.
STATIONS: mw 1kW, sw 30kW,

kc	m	kc	m	kc	m	kc	m
1349	222.4	3222	93.11	6035	49.71	9610	31.22

HOME SCE: W 06.30–08.00 on 1349/3222kc, 12.00–15.00 on 1349/6035/9610kc, 18.00–22.30(Sat 23.00) on 1349/3222kc. Sun 08.00–14.00 on 1349/6035/9610kc, 17.00–23.00 on 1349/3222kc – **N: French:** 07.15(W), 10.30(Sun), 12.45, 20.00, 22.25. **Arabic:** 07.10(W), 07.35(Sun), 13.00, 20.30, 22.15. **Ouoloff:** 12.00, 18.00. **Toucouleur:** 12.30, 18.30. **Sarakolé:** 12.15, 19.00.

ANN: F: "Ici Nouakchott, Radiodiff. de la République Islamique de Mauritanie" – **INT-SIG**: Mauritanian guitar – V. by QSL-card. Re. in F, Arabic – **F.PL**: 100kW tr. at Nouakchott 1967, 100kW mw-tr. at Port Etienne within 3 years; three 10kW mw-tr's for relay of Nouakchott to cover the whole country.

MAURITIUS (British)

L.T: GMT+4 h – **Pr.L**: English, French, Hindustani, Chinese.

MAURITIUS BROADCASTING CORPORATION (Comm.)
ADDR: Malherbes Transmitter Bldg, Forest Side. **Te**: Curepipe 507. **Cable**: Broadcast – **L.P**: Dir. Gen: St. McCormack. Chief Eng: G. Gaughan. Prgr. Contr: D. V. G. Gardner. Sales Mgr: H. X. Seneque.
STATIONS (10kW): 683kc 439m – 4850kc 61.86m – 9710kc 30.90m.
HOME AND DEPENDENCIES: D 02.30–18.30.
683kc: as above, 4850kc: 13.00–18.30, 9710kc: 02.30–13.00.
English/French: W 03.00–10.30, 14.30–18.30(Sat 19.00). Sun 03.00–09.00, 14.30–18.30. N: **French**: 03.30, 06.00, 08.30, 15.00, 16.00, 17.30. **English**: 04.00, 18.00 – **Wrp**: 03.40, 15.10(F), 04.10, (E) – **Indian Languages**: W 02.30–03.00, 10.30–14.30. Sun 10.00–14.30 – N: 02.45, 14.00 – **Chinese**: Sun 09.00–10.30. Tues–Thurs 09.30–10.30.
ANN: E: "This is the Mauritius Broadc. Corpo". F: "Ici la M.B.S. poste de radiodiff. de l'Ile Maurice" – **INT-SIG**: Opening tune: "Brucker lagger march". Before N: "Cortege de Bacchus" from Sylvia Ballet by Delibes – V. by letter. Recordings accepted.
The Marconi Company Ltd, G.B: 10kW tr. ant, studio equip.

MOROCCO (Kingdom of)

L.T: GMT – **Pr.L**: Arabic, French, Spanish, English, Berber.

RADIODIFFUSION TELEVISION MAROCAINE (Gov.)
ADDR: I Rue Pierre Parent, Rabat. **Cable**: Radiomaroc. **Te**: 201.51.
HOME SCE: First Netw. (Chaine A):
Arabic: W exc. Fri 06.30–09.00, 12.00–24.00. Fri Sun 06.30–02.00.

	kc	m	kW		kc	m	kW
Oujda	593	506	100	Marrakech I	971	309	1
Sebaa Aioun I	611	491	140	Safi I	1025	293	1
Casablanca	818	367	1	Tetuan I	1052	293	20
Rabat I	827	363	1	Tanger II	1115	269	1
Agadir	935	321	100				

Short Waves: * Sebaa Aioun; ** Tangier.
On *7225kc 41.52m 10kW: as above – On **9615kc 31.20m 100kW: 19.00–22.00 to Mid East. On **11735kc 25.56m 50kW: 12.00–15.00 to We. Africa/Mauritania. On *15345kc 19.55m 50kW: 06.30–09.00, 12.00–18.00(Fri & Sun 06.30–18.00) to We. Africa/Mauritania.
Second Netw. (Chaine B):
French, Spanish: W 07.00–09.00, 12.00–15.00, 18.00–24.00, Sun 07.30–02.00.

	kc	m	kW		kc	m	kW
Sebaa-Aioun II	701	428	140	Marrakech	1151	261	1
Oujda II	827	263	1	Casablanca II	1187	253	1
Tanger III	1016	295	1	Safi II	1322	227	1
Rabat II	1025	293	1				

Short Wave: Sebaa-Aioun 7115kc 42.16m 10kW to So. Morocco
French: W 07.00–08.30, 12.00–14.00, 18.00–23.00. Sun 07.30–10.00, 11.00–14.00, 15.00–23.00 – N: 07.45, 13.00, 20.00, 22.45. **Spanish**: 08.30–09.00(Sun 10.00–11.00), 14.00–15.00, 23.00–24.00 – N: 08.30, 14.15, 23.00.
Third Netw. (Chaine C):
Berber: 07.00–09.00, 12.00–15.00, 17.00–23.00.

	kc	m	kW		kc	m	kW
Tetuan II	917	327	5	Casablanca III	1484	202	1
Sebaa-Aioun III	1043	288	25	Marrakech	1594	188	1
Rabat III	1295	232	1				

"Voice of Morocco": 1232kc 243.5m 50kW: 09.30–18.00, 22.00–24.00.
Arabic: 09.30–14.00, 22.00–24.00 – **Spanish**: 14.00–16.00 – **French**: 16.00–18.00.
FOREIGN SERVICE: **French, English, Ouolof**: 18.30–23.30.
Sebaa-Aioun 6190kc 48.47m 50kW: to We Af/Mauritania
Tangier 11735– 25.56– 50– : to We Af/Mauritania
Tangier 15410– 19.47– 10– : to So. Morocco.
ANN: F: "Ici Rabat Radiodiff. Télévision Marocaine" E: "This is the Morroccan Broadc. and Television System Rabat" Sp: "Aqui Radiodif. Televisión Maroqui" – Voice of Morocco: F: "Ici Tanger la voix du Maroc" – V. by QSL-card. Recordings accepted. Rp. – **PUB**: Monthly magazine in Arabic – **F.PL**: 400kW LW-tr.

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VOICE OF AMERICA RADIO STATION IN TANGIER
ADDR: Voice of America, Washington 25, D.C. USA.
STATIONS: Tangier 35/50/100kW: 02.45–07.45, 12.00–24.00.

kc	m	kc	m	kc	m	kc	m
5965	50.29	9540	31.45	11735	25.56	15315	19.59
5995	50.04	9565	31.36	11790	25.45	17720	16.93
6020	49.83	9615	31.20	11920	25.17	17790	16.86
6115	49.06	9670	31.02	11960	25.08	17815	16.84
7170	41.84	9700	30.93	15135	19.82	17855	16.80
7250	41.38	9710	30.90	15190	19.75	21455	13.98
7255	41.35	9740	30.80	15290	19.62	21690	13.83
7270	41.27	11710	25.62	15295	19.62		

D.PRGR: Short Wave: See USA – **ANN**: "This is the Voice of America Relay St. at Tangier" – **INT-SIG**: 20 second variations of "Columbia, the Gem of the Ocean". – V. by QSL-card.

MOZAMBIQUE (Port. East Africa)

L.T: GMT+2 h – **Pr.L**: Portuguese, English, Afrikaans, Vernaculars.

RADIO CLUBE DE MOZAMBIQUE (Non-profit organization)
FI: By state, license, adv – **AD**: Portuguese: 04.30–12.00, 15.45–22.00. English: 03.30–23.00 – **ADDR**: P.O. Box 594, Lourenço Marques. **Te**: 4045. **Cable**: Radioclube – **L.P**: Exec. Dir: H. A. da Silva Rodrigues. Dir. Tec: V. Rodrigues. Chief Portuguese Section: J. Mendonça. Chief English Section: D. Davies.
STATIONS: 15 tr's from 5 to 100kW.

kc	m	Prgr	kc	m	Prgr	kc	m	Prgr	kc	m	Prgr
737	407.1	A	3260	92.02	A	4865	61.66	*	6180	48.54	Rlg
917	327.0	B	3300	90.90	**	4925	60.90	A	11780	25.47	B
1160	258	C	4835	62.05	B	6050	49.59	B	11835	25.35	A
1223	245.3	*	4860	61.73	Rlg.	6115	49.06	A	15295	19.62	C
3215	95.30	B									

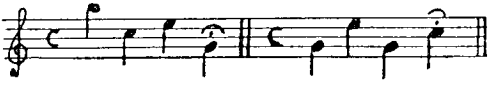
FM: 98Mc (Prgr A+C). *=Ronga, Shangane; **=Ronga, Shangane +Rlg. prgr.
"A" PRGR in Portuguese: W 04.30–21.00. Sun 05.15–21.00.

Oct 65/April 66:	kc		kc
04.30[1]–12.00	737, 4925, 6115, 11835+FM	16.30–17.00	737, 4925, 11835
		17.00–17.30	737, 3260, 4925
12.00–16.30	737, 4925, 6115, 11835		11835
		17.30–21.00	737, 3260, 4925

[1]=Sun 05.15.
N: 05.15, 10.30, 16.30, 17.30, 20.30 – **Rlg**: Sun 07.00, 18.00 – **Wrp**: 10.30, 16.30 – **L.L (English)**: Tues 11.20, Fri 16.00.
ANN: On the h: 4 notes on gong followed by "Aqui Portugal Mocambique fala-vos o R. Clube em Lourenço Marques transmitindo en ondas curtas e medias" – **INT-SIG**: Gong – V. by QSL-card.
"B" PRGR. in English, Afrikaans: D 24 h.

Oct 65/April 66	kc		kc
04.00–04.30	917, 4835, 11780	16.00–17.00	917, 4835, 6050
04.30–05.00	917, 4835, 6050 11780		11780
		17.00–17.30	917, 4835, 11780
05.00–16.00	4835, 6050, 11780	17.30–22.00	917, 3215, 4835
		22.00–04.00	917, 3215

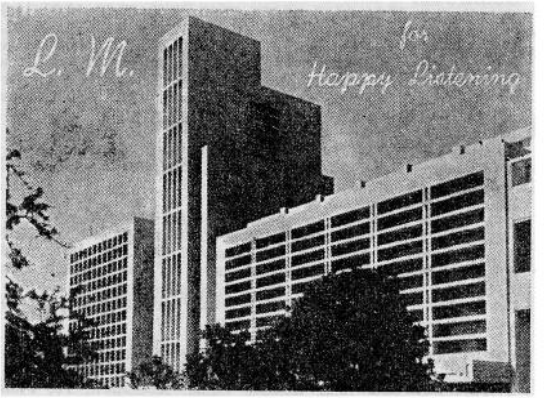
Rlg's Prgr's: W 19.30–21.00 on 3300/4860kc, Sun 04.30–05.00 on 4860/6180kc, 19.30–21.15 on 3300/4860kc.
ANN: Every quarter-h and half-h 4 notes on a gong followed by: "This is Lourenço Marques R. for Happy listening, broadc. from Portugal Mocambique...broadc. in the 25, 42, 49, 60, 92, 327 metre bands" – **INT-SIG**: Gong – V. by QSL-card. Recordings accepted – **PUB**: Monthly: Radio Mocambique.



"C" PRGR. in Portuguese (to Lourenco Marques & Europe): 16.30(Sun 14.00)–20.00 on 1160/15295kc+FM.
Ronga: W 17.30–19.00 on 1223/3300/4865kc (Sat also 11.00–12.00 on 1223/4865kc). Sun 07.00–09.00, 10.30–16.00 on 1223/4865kc, 17.00–19.00 on 1223/3300/4865kc – **Shangane**: W 16.00–17.30 on 1223/3300/4865kc (Sat also 10.00–11.00 on 1223/4865kc). Sun 05.00–07.00, 09.00–10.30, 12.00–16.00 on 1223/4865kc, 16.00–17.00 on 1223/3300/4865kc.

REGIONAL STATIONS (all 0.25kW soon to be 5kW):

Name	kc	m	Name	kc	m
Quelimane	935	321.0	Quelimane	4865	61.66
Nampula	1223	245.3	Porto Amélia	4940	60.73
Porto Amélia	1421	211.1	Quelimane	4972	60.33
Nampula	3200	93.75	Nampula	4975	60.30
Quelimane	3210	93.44	Porto Amélia	7115	42.16
Nampula	3300	90.90	Quelimane	7140	42.02
Porto Amélia	3395	88.37	Quelimane	7160	41.90
Nampula	4855	61.79	Nampula	7190	41.72



These are your

Lourenço Marques Radio

Wavebands for happy listening

04.00–04.30 on 917/4835/11780 kc
04.30–05.00 on 917/4835/6050/11780 kc
05.00–16.00 on 4835/6050/11780 kc
16.00–17.00 on 917/4835/ 6050/11780 kc
17.00–17.30 on 917/4835/11780 kc
17.30–22.00 on 917/3215/ 4835 kc
22.00–04.00 on 917/3215 kc

All times are GMT.

Freq's are changed according to propagation conditions.

LOURENÇO MARQUES *For Happy Listening*

For full information see opposite page.

PORTO AMELIA (Emissor Reg. de Cabo Delgado):
Portuguese: Sun 05.30–07.30 on 1421/7115kc, 09.30–12.00 on 7115kc, 17.30–20.00 on 1421/3395kc; W 10.30–12.00 on 1421/7115kc, W exc. Wed, Fri: 16.00–19.00 on 1421/3395kc.
Macua do Medo: Sun 09.30–10.30 on 1421/7115kc, 16.00–17.30 on 1421/3395kc, Wed 16.30–19.00 on 1421/3395kc.
NAMPULA (Emissor Reg. do Norte):
Portuguese: W 04.30–05.30, 09.30–11.30 on 1223/4855/7190kc, Sun 07.00–08.30 on 1223/4855kc, 08.30–11.30 on 1223/4855/7190kc, D 16.30–18.00 on 1223/3200kc, 18.00–20.00 on 1223/3200/3300(Sun)/4855kc.
Macua: D 17.00–18.00 on 4975kc, Sun also 06.00–08.30 on 7190kc.
QUELIMANE (Emissor Reg. da Zambézia):
Portuguese: 10.15(Sun 08.00)–12.00 on 935/4865kc, 16.00–19.30 on 4865kc (Sun also 935kc) – **Chuabo:** Sun 05.00–06.00, 10.00–11.00 on 4972kc, D 17.00–18.00 (Sun, Wed, Sat 19.00) on 3210kc – **F.PL:** New st. at Beira using 1295, 1358, 3355, 4895, 6040, 7265, 9595kc on sched. identical to other Regionals.
Sw-tr's: 1×100kW (Brown, Boveri), 3×25kW (Philips); 1×20kW (Gates); 2×10kW, 4×7.5kW, 3×5kW & 10×0.25kW (RCA) – **Mw-tr's:** 2×50kW (Philips); 1×10kW & 4×0.25kW (RCA); 1×1kW (Collins) – **FM:** 1kW (RCA).
Wilh. Franz KG: EMT studio equip.

EMISSORA DO AERO CLUBE DA BEIRA (Priv. Comm.)
FI: By adv – **ADDR:** C.P. 3, Beira. **Te:** 2505. **Cable:** Aero. **L.P:** Dir: F. J. Silvério Moiteira.
STATIONS: mw 5kW, sw 0.3kW.
1430kc 210m – 3240kc 92.59m – 7240kc 41.44m.
HOME SCE. in Portuguese: W 04.30–06.00, 09.30–11.30(Sat 15.00, Sun 05.00–15.00) on 1430/7240kc, 15.30(Sat/Sun 15.00)–16.00 on 1430/3240/7240kc, 16.00–17.00 on 1430/7240kc, 17.00–21.00 on 1430/3240kc. **N:** 04.50(W), 10.00, 17.45, 20.15. **"Hora Africano":** D 16.00–17.00 (Sun also 06.00–07.00) on 3240kc.

RADIO PAX (Rel. owned by Franciscan Fathers)
FI: By gifts and state – **ADDR:** C.P. 594, Beira. **Te:** 2763. **Cable:** Radio Pax – **L.P:** St. Mgr: Dr. M. Reis M. Dir. Tec: A. Especial
STATIONS: 1295kc 231.7m 1kW.
3960kc 75.76m 0.5kW – 7205kc 41.64m 5kW.
HOME SCE. in Portuguese, Xissena, Maxangane:
W 04.00–05.30, 09.30–12.00, 15.30–21.00. Sun 05.00–21.00.
N. in Portuguese: 04.30(Sun 05.30), 10.15, 17.30, 20.30.
Vernaculars: W 15.30–16.30, Sun 12.00–13.00.
ANN: "Aqui Beira. Moçambique á R. Pax, Emissora Católica" – **V.** by QSL-card or letter – **INT-SIG:** Chimes. Prgr's open with religious choir – **F.PL:** 3kW mw, 10kW sw.

NIGER (Republic)

L.T: GMT+1 h – **Pr.L:** French, Hausa, Djerma, Tamachek, Peulh, Beriberi.
RADIO NIGER (Gov.)
ADDR: B.P. 361, Niamey. **Cable:** Radioniger. **Te:** 2272 – **L.P:** Dir: B. Lucas. Dir. Tec: L. Vigié.
STATIONS (System TRT):

kc	m	kW	Net	kc	m	kW	Net	kc	m	kW	Net
1511	198.4	1	I	4785	62.70	30	II	6060	49.50	4	I+III
3260	92.02	4	I	5020	59.76	4	II	7135	42.05	4	II

HOME SCE: **Net.I:** W 05.30–06.30 on 1511/3260kc, 11.30–13.17 on 1511/6060kc, 17.00(Sat 15.00)–21.15(Sat 22.30) on 1511/3260kc; Sun 07.00–16.30 on 1511/6060kc, 17.00–21.00 on 1511/3260kc. **Net.II:** W 05.30–06.30 on 5020kc, 11.30–13.17 on 7135kc, 17.00(Sat 15.00)–21.15(Sat 22.30) on 4785/5020kc; Sun 07.00–16.30 on 7135kc, 17.00–21.00 on 4785/5020kc. **Net.III:** W 06.30–11.30 on 6060kc. **N:** French (Net.I+II): W 06.00, 12.00, 13.00, 17.00, 18.45, 21.10, Sun 09.00, 12.00, 18.45, 21.10; Net.III: 07.30(W), 09 00(W), 10 30(W) – **L.L:** (English): Mon, Tues, Thurs, Fri 17.15(Net.I+II) – **N. in English:** Wed, Sat 17.15(Net.I+II) – **Vernaculars:** Net.I: 12.20, 18.00 Djerma, 17.30 Tamachek, 17.45 Peulh. Net.II: 12.20, 18.00. Hausa, 17.30 Beriberi. Net.III: 09.05, 10.35 Djerma, 09.10, 10.40 Hausa.
ANN: At opening and close down "La Nigerienne". Local flute and "Ici Niamey Radiodiffusion de la République du Niger".
INT-SIG: Local Flute.

V. by QSL-card. Recordings accepted – **F.PL:** Mw. rel. st's at Ni Guigmi, Zinder, Maradi – **PUB:** Prgr.schedule (weekly).

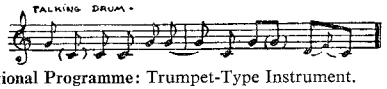
NIGERIA (Republic of)

L.T: GMT+1 h – Pr.L: English, Yoruba, Hausa, Ibo.

THE NIGERIAN BROADCASTING CORPORATION
(Statutory Corporation)
FI: By state plus comm. revenue – AD: 11 times per day: 05.20, 05.33, 06.10, 11.18, 12.10, 13.03, 13.30, 14.10, 17.45, 18.20.
ADDR: Broadcasting House, Lagos. Te: 26411. Cable: Broadcast.
L.P: Dir. Gen: E. V. Badejo. Dir. Tec: D. M. T. Oke. Dir. External Sce: C. Achebe. Dir. Prgr. (Ag): Y. Olumide. Dir. Adm: H. N. Osakwe. Secr: O. Fashina. Dir. N. & Current. Affairs: H. Agedah.
NATIONAL PRGR. (from Lagos):
1088kc 276m 5kW: 04.30–22.00(Sat 23.00, Sun 05.00–22.00).
4990kc 60.12m 20kW: 04.30–09.00, 14.00–22.30 (Sat 23.00, Sun 05.00–09.00, 14.00–22.00).
7255kc 41.35m 5kW: 08.00–16.03(Sun 08.00–22.00).
N: English: 05.30, 06.00*, 07.00, 09.00, 10.00, 11.00, 12.00*, 13.00, 14.00*, 15.00, 16.00, 17.00, 18.00**, 19.00, 20.00**, 21.00, 22.00 – * 10 min. **15 min; other times 3 min's summary – Educational Prgr's in English: D 07.45, 09.30, 10.03, 11.03, 15.30 – N. in Hausa, Ibo, Yoruba: 08.00, 17.03, 21.03.
WEST REG. PRGR. (from Ibadan):
1358kc 221m 10kW: 04.30–22.30(Sat 23.00).
1397[1] 215m 0.25kW: as 1358kc. [1]=Ijebu-Ode, Warri.
3204kc 93.64m 5kW: W 04.30–22.30(Sat 23.00), Sun 05.00–07.08, 16.45–22.00.
7285kc 41.18m 10kW: D 07.15–16.30.
N. in English, Yoruba: 13.30–19.00.
EAST REG. PRGR (from Enugu):
1320kc 227m 10kW: 04.30–22.30 (Sat 23.00, Sun 05.00–22.00).
1397kc[2] 215m: as 1320kc. [2] Onitsha, P. Harcourt.
1397kc[3] 214m 0.25kW: as 1320kc. [3] Calabar.
3980kc 75.38m 10kW: 04.30–07.03, 16.30–22.30(Sat 23.00).
6145kc 48.82m 2.5/5kW: 07.15–16.30.
N. in English, Ibo, Efik: 14.30, 19.00.
NORTH REG. PRGR. (from Kaduna):

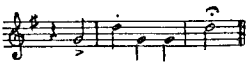
1416 kc	212m	1kW:	04.30–22.30(Sat 23.00).
1376[4] –	218–	:	04.30–22.30(Sat 23.00).
1397[5] –	214–	:	04.30–22.30(Sat 23.00).
3326 –	90.20–	7.5 – :	04.30–07.03, 16.30–22.30(Sat 23.00).
3396 –	88.36–	10 :	16.45–22.30.
6175 –	48.58–	20 :	07.00–16.30.
9655 –	31.07–	10 – :	07.00–16.30.

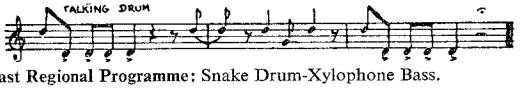
[4] Kano. [5] Jos, Sokoto, Ilorin, Maiduguri, Zaria, Katsina.
N. in English, Hausa: 14.30, 19.00.
EXTERNAL SERVICES to No. Ea. C. and So. Africa, M. East (from Lagos): 13.00–22.00 on 7275/9690kc(10kW); 13.00–16.00, 17.00–22.00 on 11900kc(100kW). Irregularly on 15255kc.
English: 15.00–16.00, 17.00–19.00, 21.00–22.00. N: 15.00, 17.00, 21.00 – French: 13.00–14.00, 19.00–21.00. N: 13.00, 19.00 – Arabic: 16.00–17.00. N: 16.00 – Hausa: 14.00–15.00. N: 14.00.
ANN: "This is R. Nigeria" or "This is Voice of Nigeria".
INT-SIG: National prgr: Talking Drum.



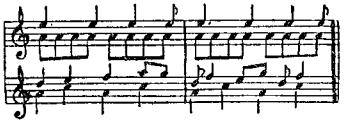
North Regional Programme: Trumpet-Type Instrument.

West Regional Programme: Talking Drum.





East Regional Programme: Snake Drum-Xylophone Bass.



V. by QSL-card. Re. will be welcomed by Chief Engineer – PUB: Monthly: Transmission schedules are distributed free of charge. The Nigerian Radio Times available on a subscription basis.
P.Y.E. Ltd.. G.B.: Studio equip.

EASTERN NIGERIA BROADCASTING SERVICE (Gov.)
ADDR: Box 350, Enugu. Cable: Easteller. Te: 2579
L.P: Gen. Mgr: K. Okoronkwo. Chief Eng: D. S. Reid. Head of Prgr's J. H. Spear. Comm. Mgr: R. Lotz.
STATIONS (System: Redifon): 953kc 315 m 10kW – 4855kc 61.79m 10kW.
HOME SCE: W 05.00–23.00, Sun 06.00–22.00.
N. in English: 05.06, 05.30, 06.00*, 07.00, 08.00, 09.00, 10.00, 11.00*, 13.00*, 13.45, 14.55, 16.00, 17.00, 18.00*, 18.45, 20.00*, 21.00, 22.00. *)=BBC – Vernaculars: Ibo, Efik, Ijaw: 06.45, 12.00, 18.10; Hausa, Yoruba: 06.15, 13.09, 18.21 – ANN: "This is Eastern Nigeria Broadc. sce" or "This is the Voice of Eastern Nigeria" – INT-SIG: Drum (repeated) – V. by letter. Recordings accepted – F.PL: 500kW mw-tr to commence operation late 1965 on 620kc.

RADIO TELEVISION KADUNA (Comm.)
FI: By comm. but subsidised – ADDR: P.O. Box 250, Kaduna, No. Nigeria. Cable: Radionorth. Te: 2294 – L.P: Man. Dir: L. A. W. Diamond. Chief Eng: G. White.
STATIONS: 593kc 505.9m 10/250kW – 6090 49.26m 10kW.
HOME SCE. in English, Hausa: 05.00–22.00 on 593/6090kc – N. English: 05.30, 11.30, 14.00, 18.30. Hausa: 05.40, 11.40, 14.10, 18.40 – ANN: "This is R. Television Kaduna" – INT-SIG: Bauchi Drums. V. by letter. Recordings accepted.
Brown Boveri, Switzerland: One 250kW mw-tr (Jaji), one 10kW sw-tr. Marconi, GB: One 10kW mw-tr.

WESTERN NIGERIA RADIOVISION SERVICE (Comm.)
FI: 100% from We. Reg. Gov. of Nigeria – AD: D 6 min. each h – ADDR: P.O. Box 1460, Ibadan. Cable: Radvision. Te: 24381 – L.P: Man. Dir: V. O. Fayemi. Ag. Contr. of Prgr's: A. Ogunlade. Ag. Sales Mgr: S. Rhodes. Secr: A. Oyelowo. Dir. Tec: J. O. Oyeleye. Publ. Rel. Officer: J. O. Olagbaju.
STATIONS (System: Redifon): *Abafon. Others Ibadan.
*602kc 498.4m 10kW – 656kc 457.3m 10kW
3380kc 88.70m 10kW – 6185kc 48.50m 10kW
HOME SCE: W 05.00–01.00. Sun 06.00–22.05.
On 3380kc: 05.00–06.15(Sun 06.00) and from 16.40.
On 6185kc: 06.15(Sun 06.00)–16.40.
N. in English: 05.10(W), 06.00, 07.00(BBC), 07.10(African), 12.00, 17.00, 20.00. Also short N every h at 09.00–01.00 – N. in Yoruba, Edo, Hausa: 16.00 – ANN: "This is the Western Nigeria Broadc. Sce" or "This is WNBS, Ibadan" – INT-SIG: Chimes – 2 notes only (G & E) – V. by QSL-card or letter. Re. to Chief Eng – F.PL: 50kW on 650kc, new 10kW mw-tr. at Akure, power increase sw-tr.

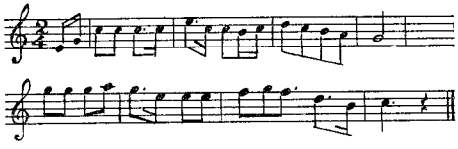
REUNION (French)

L.T: GMT+4 h – Pr.L: French.

OFFICE DE RADIODIFF-TELEVISION FRANCAISE (ORTF).
ADDR: B. P. 309, St. Denis, La Réunion. Te: 868 – L.P: Chef des Sce's: B. Guyot. Dir. Tec: H. Pottier. Dir. Inf: J. Vincent-Dolor.
STATIONS (System TRT): St. Pierre. Others St. Denis.

602 kc	498.4 m	8 kW	all times
1124 –	266.9 –	1 –	all times
2246 –	122.6 –	4 –	02.30–05.00, 13.00–18.30
3380 –	88.76 –	1.5 –	all times
4820 –	62.24 –	4 –	all times
7245 –	41.41 –	4 –	05.00–13.00

HOME SCE. in French: W 02.30–10.00, 13.30–18.30. Sat 02.30–18.30, Sun 03.00–18.30 – N: W 02.30, 03.00, 03.30, 04.00, 08.30, 15.45, 18.00. Sun 04.00, 08.30, 15.45, 18.00 – Wrp: W 02.59, 03.59, 14.07, 15.35. Sun 03.59, 14.00, 15.35.
ANN: "Ici La Réunion, office de Radiodiff. Télévision Francaise" V. by letter. Rp – INT-SIG: "Madina" (Reunion Folklore) played on guitar.



RHODESIA

L.T: GMT+2 h – Pr.L: English, Shona, Sindebele.

RHODESIA BROADCASTING CORPORATION
(Indep. Statutory Body, established by Rhodesia Act of Parliament)
FI: by Gov, license payments & adv – ADDR: P.O. Box 8008, Causeway, Salisbury. Cable: Broadcasts. Te: 61331 – L.P: Chmn of Board: J. M. Helliwell. Dir. Gen: J. H. Parry, O. B. E. Dep. Dir. Gen: D. A. Stephen. Dir. African Sce: B. J. Gilbert. Dir. English Sce: J. Baldwin. Chief Eng: J. Grahame. A.M. BRIT I. R.E.
STATIONS: G=General Comm. Sce; A=African Comm. Sce.

VOICE OF NIGERIA

THE VOICE OF AFRICA'S LARGEST NATION REACHES THE ENTIRE WORLD

OUR FREQUENCIES ARE:

WEST AFRICA

(1) 9.690mcs – 31 metres

(2) 7.275mcs – 41 metres

OTHER AREAS

(1) 11.900mcs – 25 metres

(2) 15.255mcs – 19 metres

For details of Programmes, please write TO:

DIRECTOR OF EXTERNAL BROADCASTING

NIGERIAN BROADCASTING CORPORATION

LAGOS, NIGERIA

Medium Waves:

	kc	kW	Sce		kc	kW	Sce
Salisbury	584	2	G	Que Que	1255	0.175	G
Gwelo	683	2	G	Bulawayo	611	2	G
Gwelo	710	2	A	Gatooma	791	2	G
Ft. Victoria	855	1	G	Umtali	980	2	G
Salisbury	890	2	A	Bulawayo	1340	2	A

Short Waves: Gwelo

kc	m	kW	Sce	kc	m	kW	Sce
2425	124.6	2.5	G	5012	59.86	20	G
3306	90.73	10	A	5975	50.21	10	A
3396	88.36	20	G	6020	49.83	20	G
4828	62.16	10	A	7175	41.81	2.5	A

HOME SCE: General Sce: W 03.55–21.00(Sat 22.00), Sun 05.55–12.00, 14.00–21.05.
On 2425kc: W 03.55–06.10, 15.00–21.00(Sat 22.00). Sun 14.00–21.05. **On 3396kc:** W 03.55–06.10, 15.00–21.00(Sat 14.20–22.00), Sun 14.00–21.05. **On 5012kc:** W 06.15–13.00(Sat 14.15), Sun 05.55–12.00.
African Sce: 03.30(Sun 06.00)–20.05(Sat 20.00).
On 3306kc: 03.30–06.05(W), 14.35–20.05(Sat 20.00). **On 4828kc:** 06.10(Sun 06.00)–14.30. **On 7175kc:** 10.00(Sun 06.00)–14.45.
Note: The continued use of 4828 kc and 5012kc will depend on the effect of the present sunspot conditions within the next few months. If considerable improvement results, these freq's will be replaced by 5975kc and 6020kc for A and G services respectively. Present indications are that the above list of sw-freq's will apply during the period March/April, 1966.
NEWS in English: Gen. Comm. Sce: 04.00(W), 05.00(W), 06.00**, 09.00(Sun), 11.00*, 11.10, 13.00**(Sun), 16.00*, 17.45, 20.00, 21.00 (Sat). **African Comm. Sce:** 04.00(W), 09.00(Sun), 11.00*, 11.10, 16.00*, 17.45, 20.00 – * BBC; ** SABC.
ANN: E: "This is the Rhodesia Broadc. Corpo" – **INT-SIG:** 5 min's prior to opening English Sce, peal of Church Bells; 5 min's prior to opening African Sce, Kalimba Xylophone, drums, – V. by QSL-card. Wilhelm Franz K.G, Germany, delivered EMT studio equipment.

RWANDA (Republic of)

L.T: GMT+2 h – **Pr.L:** Kinyarwanda, Swahili, French.
RADIODIFFUSION DE LA REPUBLIQUE RWANDAISE (Gov.)
ADDR: B.P. 83, Kigali. **Te:** 42. **Cable:** "Radiorwanda" – **L.P:** Chief of Inf. Sce: N. Buregeya.
STATIONS: 6030kc 49.75m 50kW – 6058kc 49.52m 5kW.
HOME SCE. in French, Kinyarwanda, Swahili: 04.00–05.30, 09.00–11.30, 15.00–20.00 – **N: French:** 04.30, 10.15, 18.00. **Kinyarwanda:** 05.00, 10.45, 17.00. **Swahili:** 11.00, 17.15.
ANN: "Ici Kigali, Station Nationale de Radiodiff. de la République Rwandaise" – **INT-SIG:** Inanga (local harp) – V. by QSL-card. Rp. Recordings accepted – **PUB:** Prgr. schedule free.

DEUTSCHE WELLE RELAY STATION AFRICA
ADDR: Kigali – **STATIONS:** One tr. 250kW

kc	m	kc	m	kc	m	kc	m
6045	49.63	9695	30.95	11850	25.32	15380	19.50
7290	41.15	9735	30.82	11855	25.31	17765	16.89
9660	31.06	11770	25.49	11905	25.20	17805	16.85

D. PRGR: see Deutsche Welle, Germany.

SAHARA (Spanish)

L.T: GMT – **Pr.L:** Spanish, Vernaculars.
RADIO SAHARA (Gov.)
ADDR: El Aaiun – **L.P:** Dir. J. Zahonero Diaz.
STATION (System: Philips): 660kc 2kW.
HOME SCE: 12.00–16.00, 20.00–23.00. **Spanish:** 12.00–16.00, 21.00–23.00. **Hasania:** 20.00–21.00 – V. by letter.

SAO TOMÉ E PRINCIPE (Port W.Africa)

L.T: GMT – **Pr.L:** Portuguese.
RADIO CLUBE DE SÃO TOMÉ (Comm.)
ADDR: Av. Infante D. Henrique, C.P. 44, São Tomé. **Te:** 530 – **L.P:** Pres: R. S. de Almeida Carvalho. Dir. Tec: F. R. Teixeira
STATIONS: 749kc 400m 5kW – 4807.5kc 62.41m 1kW.
HOME SCE: W 06.00–07.00, 12.00–13.00, 18.00–22.00. Sun 09.00–13.00, 18.00–22.00 – **N:** 12.15, 19.00 – **Mbg (DX-QSL):** Sat 20.00 (fortnightly) – **ANN:** "Aqui Portugal, Provincia de S. Tomé e Principe, fala-vos o R. Clube de S. Tomé transmitindo na..." – V. by QSL-card. Rp. Prgr. schedule free.
Continental Electronics, USA: 5kW mw-tr, 1kW sw-tr.

TOTAL COVERAGE
For the most complete advertising coverage of top-level buying influence within the radio and TV world contact:
World Radio TV Handbook Co. Ltd.
Sundvej 6, Hellerup, Denmark.

SENEGAL (Republic)

L.T: GMT – Pr.L: French, Ouolof, Sérére, Toucoulour, Portuguese.
RADIODIFFUSION DU SENÉGAL (Gov.)
FI: By Gov. and adv – ADDR: B.P. 1765, Dakar. Cable: Radio Senegal. Te: 320–72 – L.P: Dir. Gen: A. Diack. Dir. Tec: J. Puyhaubert.
STATIONS (Systems: CFTH, RCA, TRT, BBC):

kc	m	kW	Net	kc	m	kW	Net	kc	m	kW	Net
764	392.6	200	II	4950	60.60	4/25/100	I	9675	31.01	100	
1538	196.0	10	I	5960	50.34	4/25/100	I	9720	30.86	4/100	I
4890	61.35	30	II	5975	50.21	30	II				

Reg. St's: St. Louis (Sénégal III): 1484kc 202.2m 1kW – Ziguinchor (Sénégal IV): 3336kc 88.89m 4kW – 6070kc 49.42m 4kW
Radio-Sénégal I (International Netw): W 06.00–08.00, 12.00–14.00, 18.00–24.00. Sat 06.00–08.00, 12.00–24.00. Sun 07.00–24.00. On 1538kc: as above. On 4950/5960kc (4/100kW): 06.00–10.00, 17.00 (Sat/Sun 18.00)–24.00. On 5960/9720kc (4/100kW): 10.00–17.00 (Sat/Sun 18.00).
Radio-Sénégal II (Nat. Netw): W 06.00–08.00, 12.00–14.00, 18.00–24.00. Sat 06.00–08.00, 12.00–24.00. Sun 07.00–24.00. On 764kc: as above. On 4890kc: 06.00–08.00, 17.00(Sat/Sun 18.00)–24.00. On 5975kc: 10.00–17.00(Sat/Sun 18.00).
N. in French (R. Senegal I+II): W 07.00, 08.00, 09.55, 12.00, 13.00, 14.55, 19.00, 20.00, 22.15, 23.55. Sun 08.30, 13.00, 19.00, 20.00, 22.15, 23.55.
Saint Louis: 1484kc: W 06.00–08.00, 12.00–14.00, 18.15–22.30.
Ziguinchor: W 12.00–14.00 on 6070kc, W 18.00–21.30 on 3336kc. Sat/Sun 17.30–21.30 on 3336/6070kc.
To Western Europe: W 17.30–18.00 on 9675kc.
ANN: F: "Ici Sénégal Inter émettant de Dakar sur..." – "Ici Senegal II. Chaine Nationale émettant de Dakar". E: "This is the English prgr. of the International Sce. of the Senegalese Broadc. System" – INT-SIG: Melody on "Khora" (local Harp) – V. by QSL-card. Rp.

SEYCHELLES (British)

L.T: GMT+4 h – Pr.L: English, French, Creole.
SEYCHELLES BROADCASTING SERVICE (Gov.)
ADDR: Dept. of Tourism & Inf, P.O. Box 92, Victoria. Te: 447. Cable: Tourism – L.P: Dir: D. J. Knox. Broadc. Asst: G. Low Hang. Dir. Tec: E. C. Passmore.
STATION: ZCQ3 4990kc 60.12m 0.04kW.
HOME SCE: 14.15–16.15. N(BBC): 16.00 – N. in Creole: W 16.10 – ANN: E: "This is R. Seychelles" – PUB: Prgr. schedule free.

SIERRA LEONE

L.T: GMT – Pr.L: English, Mende, Temne, Krio.
SIERRA LEONE BROADCASTING SERVICE (Gov.)
FI: By state, license payments and adv – AD: Comm, spots accepted – ADDR: New England, Freetown. Te: 4711-3. Cable: Broadcasts – L.P: Dir. of Broadc: P. F. George (Ag). Asst. Dir. (Prgr's & Adm): J. Findlay (Ag.) Asst. Dir. (Engineering): P. F. George.
STATIONS: 1200kc 10kW.
3316kc 90.46m 5/10kW – 5980kc 50.17m 5kW.
HOME SCE: 06.00–10.15, 13.00–13.30, 15.00–23.30. Sat 06.00–11.15, 13.00–01.10. Sun 06.00–10.45, 13.00–23.30.
N. in English (BBC): 07.00, 16.00, 20.00. Nat. N: 06.45 (Vernaculars, English), 18.00 (Vernaculars), 20.10 (English) – "African Magazine": Fri 21.00 – ABC of Economics: Tues 21.00 – "Any Questions": Mon 21.00.
ANN: "This is Sierra Leone Broadc. Sce" – INT-SIG: "The rain is coming" played by Military band – V. by letter. Recordings accepted.
The Marconi Company Ltd, G.B: 2×10kW sw-tr's.
Redifon Ltd, G.B: 1×0.5kW sw-tr. – PYE Ltd, G.B: Studio equip.

SOMALI (Rep.)

L.T: GMT+3 h – Pr.L: Somali, Arabic, Italian, Swahili, English.
NATIONAL BROADCASTING STATION (Gov.)
ADDR: Voice of the Somali Republic, Mogadiscio. Te: 444
L.P: St. Dir: J. K. Tarah.
STATIONS: 4960kc 60.48m 10kW – 7120kc 42.13m 50kW.
HOME SCE: 03.00–05.00, 08.00–11.30, 12.00–15.30, 16.30–19.00.
Somali: 03.00–03.15, 03.30–03.45, 04.00–05.00, 08.00–11.30, 12.00–15.00, 16.30–17.30, 18.50–19.00. N: 03.30, 08.10, 10.00, 13.00, 17.00, 18.50 – English: 03.15–03.30, 18.00–18.25. N: 03.15, 18.00 – Arabic: 03.45–04.00, 17.30–18.00. N: 03.45, 17.30 – Italian: 18.25–18.50. N: 18.25 – Swahili: 15.00–15.30. N: 15.10.
ANN: "Halkan wa R. Mogadíscio". E: "This is R. Mogadiscio, the Voice of the Somali Republic. I: "Qui parla la R. Mogadiscio, la Voce della Repubblica Somala" – INT-SIG: Guitar – V. by QSL-card.
RADIO SOMALI (Gov.)
ADDR: P.O. Box 14, Hargeisa. Te: 15. Cable: Informat – L.P: Dir. Gen: M. Hashi. Broadc. Officer: A. Dualeh.
STATIONS: 4797kc 62.54m 10kW – 9675kc 31.01m 5kW.
HOME SCE. in Somali: 09.30(Fri 09.00)–11.30, 13.30–15.30, 16.30–17.30. N. in Somali (relayed from R. Mogadiscio): 11.00, 14.00, 17.00 – ANN: "Halkan wa R. Somali, Hargeisa" (This is Hargeisa, Somali) – INT-SIG: March – V. by QSL-card.

SOMALILAND (French)

L.T: GMT+3 h – Pr.L: French, Somali, Afar, Arabic.
RADIO DJIBOUTI (Office de Radiodiffusion-Télévision Française). ADDR: B.P. 97, Djibouti. Te: 177. Cable: Radiodiffusion – L.P: Dir: R. Marchand. Dir. Tec: L. Sebastien.
STATIONS (System: TRT):
1538kc 195.0m 4kW – 4780kc 62.76m 4kW
HOME SCE: W 03.00–04.15 on 1538kc, 09.00–11.30 on 1538/4780kc, 14.45–16.00 on 1538kc, 16.00–20.00 on 1538/4780kc. Sun 04.00–11.30 on 1538/4780kc, 14.45–16.00 on 1538kc, 16.00–20.00 on 1538/4780kc.
French: 03.00–04.15 (Sun 06.00–09.45) on 1538/4780kc, 16.00–17.00 on 4780kc, 17.00–20.00 on 1538kc – N: 03.00, 04.00, 09.00, 17.00.
Somali: 10.00–10.45 on 1538/4780kc, 14.45–15.45 on 1538kc (Sun 04.00–05.00, 10.00–10.45 on 1538/4780kc, 14.45–15.45 on 1538kc) – N: 10.00, 15.00.
Afar: 10.45–11.30 on 1538/4780kc, 15.45–16.45 on 1538kc. (Sun 05.00–06.00, 10.45–11.30 on 1538/4780kc, 15.45–16.45 on 1538kc). N: 11.00, 16.00.
Arabic: 09.45–10.00 on 1538/4780kc, 16.45–17.00 on 1538kc, 17.00–20.00 on 4780kc – N: 09.45, 16.45.
ANN: F: "Ici Djibouti Office de Radiodiff. Télévision Francaise". Afar: "Ah Djibouti Radio". Arabic: "Houna Djibouti dar el Iza'a el Francia lil Radiowal Television". Somali: "Al kani wa Radio-Djibouti" – INT-SIG: Extrait d'une mélodie somalie – V. by letter and QSL-card. Rp. Recordings accepted.

SOUTH AFRICA (Republic)

L.T: GMT+2 h – Pr.L: English, Afrikaans, Bantu (S. Sotho, Zulu, Tswana, Xhosa, N. Sotho, Venda, Tsonga).
SOUTH AFRICAN BROADCASTING CORPORATION
FI: By license payments and adv – ADDR: P.O. Box 8606, Johannesburg. Cable: Broadcast. Te: 231151.
L.P: Chmn: Dr. P.J. Meyer. Dir. Prgrs: C.D. Fuchs. Dir. Finance: J. N. Swanepoel. Chief Eng: H. O. Collett. Head Publ. Rel: J. J. Kruger. Head Comm. Sce: H. J. Howell. Head Ext. Sce: J. A. Jooste. Head English Sce: A. Falkiner. Head Afrikaans Sce: P. de Bruyn.
HOME SERVICES: National Medium-Waves: 0.5/1/2/5/10kW.

	kW	English kc	Afrikaans kc	Comm. kc
Johannesburg:				
West Rand	5	638	719	575
East Rand	5	1034	827	1286
Pretoria	2	1439	1097	1268
Bloemfontein	5	674	593	782
Kimberley	0.25	1070	1241	962
Grahamstown	5	620	701	809
Port Elizabeth	2	1313	1043	1178
East London	0.4*	1025	1151	908
Cape Town	10	656	557	728
Durban	5	566	692	800
Pietermaritzburg	5	764	665	845
Pietersburg	5	1115	863	989

* Comm. Sce. 1kW.
D.PRGR: English, Afrikaans: 03.30–21.15 (incl. Bantu Prgr's W 03.30–04.30, 07.30–08.00) – N: English: 05.00, 06.00, 09.00, 11.15, 14.00, 16.00, 17.00, 19.00, 21.00, 02.55. Indian Prgr: Sat 11.45–12.00, Sun 06.30–07.30 on 566/764kc. Afrikaans: 04.45, 06.00, 09.00, 11.15, 14.00, 16.00, 17.00, 19.00, 21.00, 22.03.
Comm. Sce. (Springbok R): W 03.00–22.00, Sun 04.00–22.00 – N: English: W 04.30, 05.30, 09.29, 11.00, 14.29, 17.00, 20.30; Sun 11.00, 16.30. Afrikaans: W 03.45, Sun 06.30, 19.30.
National Shortwave Stations (Paradys) 20kW:

English Sce. kc	m	Afrikaans Sce. kc	m	Comm. Sce. kc	m	R. South Africa kc	m
2326	129.50	2346	128.0	2376	126.3	3250	92.31
3285	91.32	3320	90.34	3250	92.31	4945	60.67
4895	61.29	4810	62.37	4945	60.67		
6095	49.22	6005	49.96	6150	48.78		
7275	41.24	7230	41.49	7185	41.76		
9525	31.50	9650	31.09	9720	30.86		

Wave bands in use and times of operation on various freq's are changed to suit propagation conditions.

Schedule Oct 65–April 66

English Sce: W=Weekdays, S=Sundays.

Nov–Feb	m.b.	March–April	m.b.
04.28–05.05(W)	90, 60, 49	04.28–05.45(W)	90, 60, 49
05.05–08.10	31, 60, 49	05.00–05.45(S)	90, 60, 49
08.10–14.05	31, 41, 49	05.45–08.30	31, 60, 49
14.05–16.35	31, 60, 49	08.30–14.05	31, 41, 49
16.35–21.15	90, 60, 49	14.05–16.25	31, 60, 49
		16.26–21.15	90, 60, 49

Afrikaans Sce

Nov–Feb	m.b.	March–April	m.b.
04.28–05.05(W)	90, 60, 49	04.28–05.45(W)	90, 60, 49
05.05–08.10	31, 60, 49	05.00–05.45(S)	90, 60, 49
08.10–14.05	31, 41, 49	05.45–08.30	31, 60, 49
14.05–16.35	31, 60, 49	08.30–14.05	31, 41, 49
16.35–21.15	90, 60, 49	14.05–16.25	31, 60, 49
		16.25–21.15	90, 60, 49

Comm. Sce (Springbok Radio)

Nov–Feb	m.b.	March–April	m.b.
03.00–05.05(W)	90, 60, 49	03.00–05.45(W)	90, 60, 49
04.00–05.05(S)	90, 60, 49	04.00–05.45(S)	90, 60, 49
05.05–08.10	31, 60, 49	05.45–08.30	31, 60, 49
08.10–14.05	31, 41, 49	08.30–14.05	31, 41, 49
14.05–16.35	31, 60, 49	14.05–16.25	31, 60, 49
16.35–22.00	90, 60, 49	16.25–22.00	90, 60, 49

R. South Africa (Special All Night Sce) (Comm.)

Nov–Feb	m.b.	March–April	m.b.
22.00–03.00	90, 60	22.00–03.00	90, 60
03.00–04.00(S)	90, 60	03.00–04.00(S)	90, 60

Also on all Springbok and R. Highveld F.M. st's.

N: Afrikaans 22.03, English 02.55(W), 03.55(S).

FM:	kW	English Mc	Afrikaans Mc	Nat. Comm. Mc	R. Highveld Mc
Johannesburg	10	95.51	103.42	99.47	87.60
Welverdiend	3	93.71	89.75	97.66	–
Rustenburg	3	102.99	106.95	95.08	–
Pretoria	5*	88.98	96.89	92.93	90.01
Durban and Pietermaritzburg	10	90.01	105.83	93.96	R. Good Hope
Constantiaberg	3	89.49	105.32	97.40	101.36
Table Mountain	0.25	106.69	102.74	90.87	98.78
Piketberg	3	99.81	95.86	107.72	91.90
Napier	3	99.21	95.25	103.17	107.12
Port Shepstone	3	102.65	90.78	98.69	–
Port Elizabeth	3	103.51	99.55	87.69	–
Grahamstown	3	93.45	101.36	89.49	–
Keiskammahoek	3	100.59	92.67	104.54	–
East London	3	107.12	95.25	91.30	R. Highveld
Bloemfontein	10	103.94	88.12	96.03	107.90
Theunissen	3	103.17	99.21	107.12	95.26
Vilhersdorp	3	94.48	102.39	95.52	–
Cala	0.25*	95.86	103.77	99.81	–
Butterworth	3	102.39	98.44	106.35	R. Highveld
Kroonstad	3	90.52	94.48	102.39	98.44
Kimberley	3	106.09	102.13	98.18	94.23
Greytown	3	107.21	103.25	91.38	–
Eshowe	3	105.06	101.10	97.15	–

	kW	English Mc	Afrikaans Mc	Nat. Comm. Mc
Riversdale[1]	3	104.20	96.29	92.33
George[1]	3	102.05	106.01	90.18
Ladybrand	3	89.93	101.79	105.75
Boesmanskop	3	104.37	92.51	88.55
Vryheid	3	102.48	98.53	94.57
Piet Retief	3	89.84	93.79	101.71
Middelburg(Tvl)	3	90.79	106.61	94.74
Bedford[1]	3	102.74	98.78	94.83
Queenstown	3	94.05	90.10	101.97
Umtata	0.25*	97.67	93.71	89.75
Sea Point[2]	0.05	101.97	93.71	105.92
Davel[2]	3	93.37	89.41	97.32
Caroline[2]	3	95.17	91.21	99.13
Zeerust[2]	3	89.32	105.15	93.28
Nelspruit[2]	3	90.44	102.31	94.70
Senekal[2]	3	101.02	97.06	93.11

* Nat. Commercial 3kW – [1] after 31/12–65 – [2] after 31/1–66.

D. PRGRS: English & Afrikaans: 03.30(Sun 04.00)–21.15 (Sat 22.00) – Nat. Comm. Sce: 03.00(Sun 04.00)–22.00 – R. Highveld & R. Good Hope: 03.00(Sun 04.00)–22.00.

N. in English: Every 2nd h from 05.00–21.00. N. in Afrikaans: Every 2nd h from 04.00–20.00.

FM Services in Vernaculars: D. 03.30–20.00.

So. Sotho	kW	Mc		kW	Mc
Johannesburg	10	91.56	Kroonstad	3	106.35
Welverdiend	3	101.62	Senekal	3	89.15
Bloemfontein	10	92.07	Ladybrand	3	93.88
Theunissen	3	91.30	Boesmanskop	3	100.42
No. Sotho	**kW**	**Mc**		**kW**	**Mc**
Pretoria	5	104.80	Middelburg(Tvl)	3	98.70
Zulu	**kW**	**Mc**		**kW**	**Mc**
Johannesburg	10	107.38	Port Shepstone	3	106.61
Pretoria	5	104.80	Vryheid	3	90.61
Pietermaritzburg	10	97.92	Piet Retief	3	105.66
Alverstone	10	97.92	Davel	3	105.23
Greytown	3	95.34	Carolina	3	103.08
Eshowe	3	93.14	Nelspruit	3	98.35
Tswana	**kW**	**Mc**		**kW**	**Mc**
Welverdiend	3	105.57	Bloemfontein	10	99.98
Rustenburg	3	99.04	Kimberley	3	90.27
Pretoria	5	100.84	Zeerust	3	97.24
Xhosa	**kW**	**Mc**		**kW**	**Mc**
Constantiaberg	3	93.45	Keiskammahoek	3	88.72
Table Mountain	0.25	94.82	East London	3	103.17
Port Shepstone	3	94.74	Butterworth	3	90.52
Cala	3	107.72	Sea Point	0.05	90.10
Umtata	3	105.57	Bedford	3	90.87
Port Elizabeth	3	91.64	Queenstown	3	105.92
Grahamstown	3	105.32			

EXTERNAL SERVICES (from March 1966).

(International st. Bloemendal, near Johannesburg).

STATIONS: 2 × 20kW tr's (Gates), 2 × 250kW tr's (Brown Boveri).

kc	m	kc	m	kc	m	kc	m
4760	63.03	7270	41.27	11900	25.21	17805	16.85
6150	48.78	9525	31.50	15220	19.71	21525	13.94

Schedule (March/April):

Times	kc	Times	kc
03.00–04.00	6150, 7270	17.00–18.00	9525, 11900
10.00–16.00	11900, 15220		15220, 17805
	17805, 21525	18.00–19.00	4760, 6150
16.00–17.00	6150, 7270		9525, 17805
	9525, 17805	19.00–22.00	9525, 11900
			15220, 17805

NEWS	L.	Nov/Feb(kc)	
03.45–04.00	Afrikaans (Springbok R)	7270	6150
11.00–11.15	English (Springbok R)	17805	15220
11.15–11.25	Afrikaans	17805	15220
11.30–11.35	French (Mon–Fri)	17805	15220
14.00–14.03	English (Mon, Wed, Fri)	17805	15220
15.45–15.55	Portuguese (Mon-Fri)	17805	15220
16.00–16.05	English (Sat/Sun)	17805	15220
16.30–16.42	English	11900	15220
17.00–17.10	Afrikaans (W)	11900	15220
17.15–17.25	French (Mon–Fri)	11900	15220
19.00–19.10	English	11900	9525
21.00–21.05	*Springbok R.	7270	9525

* Afrikaans (Mon, Wed, Fri), English (other days).

Prgr. in French: 17.15–18.00 (Mon–Fri). Prgr. in Portuguese: 15.45–16.30 (Mon–Fri).

ANN: E: "This is R. South Africa". Afrikaans: "Dit is R. Suid-Afrika". Comm. Sce: "This is Springbok R" – INT-SIG: Comm. Sce (02.57): First Five notes of "Vat jou goed en trek Ferraira" – V. by QSL-card – PUB: "SABC/SAUK Bulletin".

AKG, Austria, studio equip. (Recorders, microphones). Telefunken AG, Germany, 43 FM-tr's (0.8 and 3kW). The Marconi Company Ltd, G.B. 9 × 20kW (Bloemfontein), 3 × 5kW (Pietermaritzburg), 3 × 5kW (Grahamstown), 1 × 5kW (Maraisburg), 1 × 5kW (Welgedacht). I.T.A. America, 9 × 2kW tr's (Pretoria). Continental Electronics USA, 5kW-tr's (East London, Grahamstown).

Wilhelm Franz KG, Germany, EMT studio equipment.

SUDAN

L.T: GMT+2 h – Pr.L: Arabic. English.

SUDAN BROADCASTING SERVICE (Gov.)

ADDR: P.O. Box 572, Omdurman. Cable: Izaa.

L.P: Sen. Contr: A. A. Yousif.

STATIONS: mw 50kW, sw 20kW: * variable.

575kc 521.7m – *5000kc 60.00m – 7220kc 41.55m.

Arabic Prgr: 04.00–05.30, 06.00–09.00, 11.00–13.00, 15.00–17.30, 18.00–21.00 – Local Prgr (for So. Sudan): 13.00–14.00 – For Europeans: 05.30–06.00 & 14.30–15.00 (English), 17.30–18.00 (English & French) – Swahili (to Ea. Africa): 14.00–14.30.

ANN: Arabic: "Huna Omdurman". E: "This is the Sudan Broadcasting Service" V. by letter.

The Marconi Co, Ltd, G.B. delivered 50kW mw-tr's, 2×20kW sw-tr's. Wilh. Franz KG, Germany: EMT studio equip.

SWAZILAND (Brit. Protectorate)

L.T: GMT+2 h – Pr.L: English, Vernaculars.
TIGER RADIO (Military owned, for Forces Entertainment only)
ADDR: BFPO 640, Matsapa – L.P: St. Dir: Capt. M. Cross.
STATION: 746kc 0.075kW – HOME SCE. in English: D 11.00–11.30, 16.00–18.00. N: 11.00, 16.00 – ANN: "Tiger Radio – Voice of the British Army in Swaziland".

SWAZILAND BROADC. SCE. (Gov.)
ADDR: P.O. Box 158, M'babane.
STATION: 10kW mw-tr. to operate by December 1965.

TANZANIA

L.T: GMT+3 h – Pr.L: Swahili, English.
RADIO TANZANIA (Gov.)
FI: By Gov, adv. ADDR: Box 9191, Dar es Salaam. Te: 63342. Cable: Sauti – L.P: Ag. Dir. & Chief: Y. Kazibure. Contr. of Prgr's: D. G. Wakati. Ag. Contr. Adm, Broadc: A. B. Nakajumo. Ag. Contr. N. & Ext. Sce: W. H. C. Kamanga.
STATIONS: *=Mwanza.

kc	m	kW	kc	m	kW	kc	m	kW
836	359.0	1.25	3251	92.58	5	7165	41.87	20
1025	292.7	1.25	4785	62.70	10	7280	41.21	10
*1250	240.0	1.25	5050	59.41	20	9530	31.48	5

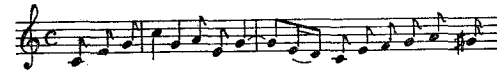
HOME SCE: National Prgr. (Swahili):
W 03.15–05.00 on 836/1250/3251/5050kc, 09.00–10.30(Sat 13.30) on 836/1250/7165kc, 13.30–16.00 on 836/1250/5050kc, 16.00–18.45 on 836/1250/3251/5050kc, 18.45–20.00 on 836/1250/3251/4785kc. Sun 03.15–05.00 on 836/1250/3251/5050kc, 05.00–07.00 on 836/1250/5050kc, 07.00–13.30 on 836/1250/7165kc, 13.30–16.00 on 836/1250/5050kc, 16.00–18.45 on 836/1250/3251/5050kc, 18.45–20.00 on 836/1250/3251/4785kc – N: 04.00, 10.00, 13.00, 17.00, 19.00.
2nd Prgr. (English): W 09.00–10.30(Sat 14.00) on 1025/7280kc, 14.00–16.00(Sat) on 1025/7280kc, 16.00–18.45 on 1025/4785kc. Sun 05.00–14.00 on 1025/7280kc, 14.00–18.45 on 1025/4785kc – N: 05.00 (Sun), 10.00, 16.00, 17.00.
3rd Prgr. (Swahili, English): Mon–Fri 14.00–16.00 on 1025/3251/4785kc – For Schools (Term Time): Mon–Fri 08.00–09.00, 12.00–13.00 on 836/7165/9530kc.
EXTERNAL SCE. in English, Portuguese, Sena, Zulu and Herero: D 18.45–20.00 on 5050kc – N: English 18.45, Portuguese 19.00. ANN: "Hii ni R. Tanzania kutoka Dar es Salaam". E: "This is the 2nd Prgr. of R. Tanzania, Dar es Salaam". 3rd Prgr: "This is the 3rd Prgr. of R. Tanzania in Dar es Salaam". Ext. Sce: "This is the External Service of R. Tanzania from Dar es Salaam" – INT-SIG: Celeste:

V. by QSL-card – F.PL: Two 240kW sw-tr's, 10kW mw-tr on 638kc.

RADIO TANZANIA ZANZIBAR (Gov.)
FI: Gov. maintained – ADDR: P.O. Box 1178, Zanzibar, Tanzania. Te: 2928. Cable: Broadcasts – L.P: Chief Inf & Broadc. Officer: Sheikh Mdungi Usi.
STATIONS (System: Redifon): 600kc 500m 2kW – 3339kc 89.80m 10kW – 4795kc 62.54m 10kW – 6005kc 49.96m 10kW.
HOME SCE. in Kiswahili: 03.30–04.30, 11.00–12.00, 14.00–18.00. Sun also 07.00–10.00 – ANN: Kiswahili: "Hii ni Tanzania Zanzibar" – INT-SIG: Musical Chords.

TOGO (Republic)

L.T: GMT – Pr.L: Ewe, Cotocolis, Cabrais, Hausa, Moba, Bassari.
RADIODIFFUSION DU TOGO (Gov.)
ADDR: B.P. 434, Lomé. Te: 2492. Cable: Radio Togo – L.P: Dir: G. Ekue. Dir. Tec: L. Poenou.
STATIONS (System TRT): 1394 kc 215.0 m 1 kW.
5047 kc 59.44 m 4/100 kW – 7265 kc 41.29 m 4/100 kW
HOME SCE. in French, Vernaculars: W 05.30–08.00, 17.30(Sat 15.00)–23.00 on 1394/5047kc; 12.00–14.00(Sat 15.00) on 1394/7265kc. Sun 06.00–10.00, 15.00–23.00 on 1394/5047kc; 10.00–15.00 on 1394/7265kc.
N: French: 05.35(W), 06.03(Sun), 06.30(W), 07.30(Sun), 07.57(W), 10.08(Sun), 12.30, 13.57, 17.30(W), 19.30, 22.15, 22.57. Vernaculars: W 06.05, 13.10, 17.35, 17.45, 17.55, 18.05, 18.15, 18.35. Sun 13.00, 13.10, 18.15, 18.35. English: 12.45, 21.00.
INT-SIG: Solo (on African bow):



ANN: "Ici Lomé Radiodiffusion du Togo". At opening and close down: Hymne Togolais – V. by QSL-card. Rp. Re. in F, E. Recordings accepted – PUB: Prgr. sched. (weekly).
Telefunken A.G. Germany: 100kW sw-tr, studio equip.

TUNISIA

L.T: GMT+1 h – Pr.L: Arabic.
RADIODIFFUSION TELEVISION TUNISIENNE (Gov.)
FI: By state and license payments – ADDR: 139, Avenue de Paris, Tunis. Te: 259311 – L.P: Dir. Gen: M. Mohamed Mzali. Dir. Foreign Rel: M. Akrout. Dir. Tec: M. Chaffai.
HOME SERVICE
ARABIC NETWORK: Nat Prgr: 05.00(16/6–30/9: 04.30)–23.30.
Tunis I 629kc 477m 600kW – FM: 96.5Mc 3kW.
6195kc 48.43m 50kW: 05.00–06.00, 17.00–23.30 to Mid East/No. Af.
11970kc 25.06m 50kW: 06.00–17.00 (to Mid East).
N, Wrp: 06.00, 12.00, 16.00, 19.00,, 23.00.
Sfax I 584kc 513.7m 0.05kW – Sfax II 602kc 498.4m 5kW.
12.00–16.00, 19.30–21.00 – N, Wrp: 13.00, 14.00, 19.00, 20.55.
INTERNATIONAL NETWORK: Tunis II 962kc 312m 100kW – FM: 90.1Mc 3kW. French: 05.30–13.30, 16.00–22.00. N: 05.30, 12.15, 18.30, 21.30 – Italian: 13.30–14.30 – ANN: Arabic: "Huna Al-Idha – A Att-Tounoussia". F: "Ici Tunis Radiodiff. Télévision Tunisienne". I: "Radiodiff. Tunisina, Rete Internazionale Programma Italiano" – V. by QSL-card. Re. in Arabic. E, F. Recordings accepted – PUB: R. Revue "Al Idha'a in French, Arabic (free)".
Tr's: CFTH (Tunis I), EMI (Sfax I), Gates (Sfax II), Telefunken (sw+FM).

UGANDA

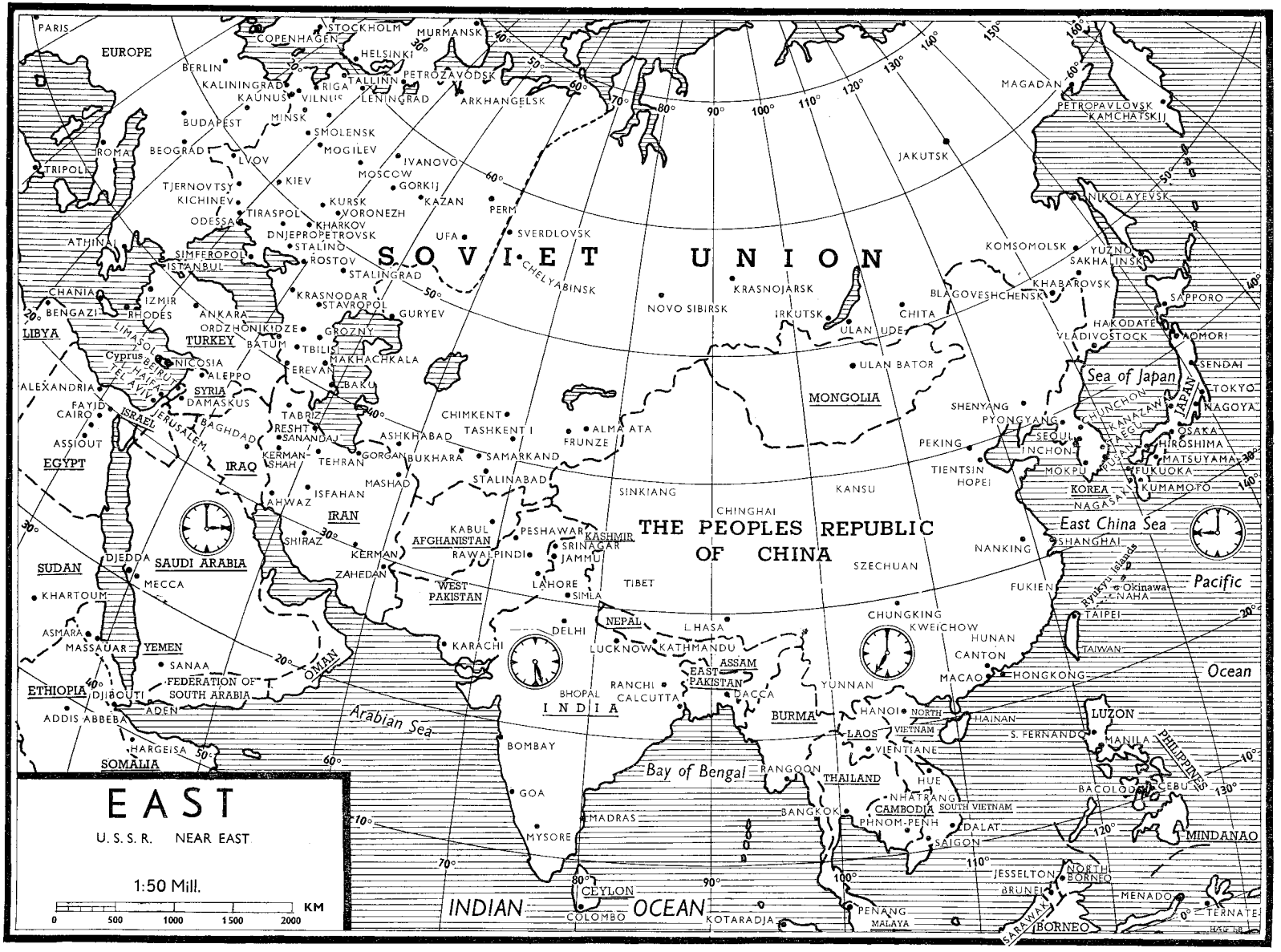
L.T: GMT+3 h – Pr.L: English, Luganda, Lwo, Ateso, Runyoro, Rutooro, Runyankore/Rukiga.
RADIO UGANDA (Gov.)
AD: Limited adv. planned – ADDR: Ministry of Inf, Broadc. and Tourism, P.O. Box 2038, Kampala. Te: 57251. Cable: Radioad – L.P: Permanent Secr: Dr. R. G. Katongole. Ag. Contr(Prgr's): P. W. Ekodeu. Chief Eng: H. F. Humphereys.
STATIONS (System: Marconi): mw: 1/2/50kW, sw: 5/8kW.

kc	m	Netw.	kc	m	Netw.	kc	m	Netw.
584	514.0	Red	3340	89.81	Red	7110	42.19	Blue
656	457.3	Blue	4976	60.29	Red	7195	41.70	Red
728	412.0	Blue	5026	59.70	Blue			

HOME SCE: Red Network (Nat, No. Reg, Hindi Prgr's): Mon–Fri 03.30–13.45 on 584/3340/7195kc, 14.00–21.00 on 584/3340/4976kc. Sat/Sun 03.30–06.02 on 584/3340/4976kc, 06.15–15.00(Sat 14.00) 584/3340/7195kc, 15.15(Sun 14.15)–21.00 on 584/3340/4796kc.
N. in English: 04.00, 05.00, 06.00, 09.00(Mon–Fri), 09.15(Sun), 10.00 (Mon–Fri), 17.00, 18.00, 20.00(exc. Sat), 21.00.
Blue Network (Nat, Midland & We. Reg. Prgr's): Mon–Fri: 03.30–05.00 on 656/712/5026kc, 06.00–11.30 on 656/728/7110kc, 14.00–21.00 on 656/712/5026kc. Sat/Sun 03.30–06.02 on 656/728/5026kc, 06.15–14.00 on 728/7110kc, 15.15(Sun 14.15)–21.00 on 712/5026kc.
N. in English: 04.00, 05.00(Sat/Sun), 06.00(Sat/Sun), 09.00(Mon–Fri), 09.15(Sun), 10.00(W), 18.00, 20.00(exc. Sat), 21.00.
ANN: E: "This is R. Uganda, Kampala". Luganda: "Eno ye R. Uganda, Kampala". Lwo: "Man en aye R. Uganda, Kampala". Rutooro: "Enu ni R. Uganda, Kampala". Ateso: "Ne nges R. Uganda, Kampala". Rukiga: "Egi ni R. Uganda, Kampala". Hindustani: "Yeh R. Uganda, Kampala, Hai" – V. by QSL-card. Recordings accepted – F.PL: 3 ch. tr's.

UPPER VOLTA (Republic)

L.T: GMT – Pr.L: French, Moré.
RADIODIFFUSION DE HAUTE-VOLTA (Gov.)
ADDR: B.P. 511. Ouagadougou. Te: 2214. Cable: Radiovolta. L.P: Dir. Gen: R. Zongo. Dir. Tec: R. Haillecourt.
STATIONS (System TRT): *=Reg. st.
1439kc 208m 1kW – 4815kc 61.31m 4kW – 6045kc 49.63m 25kW.
HOME SCE. in French, Vernaculars: W 06.30–08.00, 12.00–14.00, 17.00–23.00. Sat 06.30–08.00, 12.00–23.00. Sun 07.00–23.00.
N. in French: 06.30(W), 07.45, 12.05, 12.45, 19.10, 20.00, 22.15, 22.55 – Wrp: W: 12.40 – Vernaculars: Peulh 17.45, Mossi 18.00, Dioula 18.11, Gourounsi 18.22, Gourmantsché 18.33, Lobi 18.44, Bobo 18.55, Senoufo 19.06.
Bobo-Dioulasso: *1520kc 1kW: 17.00–19.00 (N. in Vernaculars).
ANN: "Ici Ouagadougou, Radiodiff. de la Haute-Volta émettant..."
INT-SIG: Folklore Music (Balafon) – V. by QSL-card or letter. Rp.


EAST
U. S. S. R. NEAR EAST
1:50 Mill.
0 500 1000 1500 2000 KM
SOVIET UNION
THE PEOPLES REPUBLIC OF CHINA
INDIAN OCEAN
Arabian Sea
Bay of Bengal
Sea of Japan
East China Sea
Pacific Ocean
EUROPE
LIBYA
TURKEY
SYRIA
IRAQ
IRAN
EGYPT
SAUDI ARABIA
SUDAN
YEMEN
ETHIOPIA
SOMALIA
OMAN
FEDERATION OF SOUTH ARABIA
AFGHANISTAN
WEST PAKISTAN
KASHMIR
NEPAL
INDIA
EAST PAKISTAN
ASSAM
BURMA
THAILAND
LAOS
CAMBODIA
NORTH VIETNAM
SOUTH VIETNAM
MONGOLIA
KOREA
JAPAN
PHILIPPINES
LUZON
MINDANAO
BORNEO
CEYLON
MALAYA
SARAWAK
BRUNEI
NORTH BORNEO
SINKIANG
CHINGHAI
KANSU
SZECHUAN
TIBET
YUNNAN
HUNAN
HONGKONG
MACAO
CANTON
KWEICHOW
CHUNGKING
FUKIEN
TAIWAN
TAIPEI
NAHA
Okinawa
Ryukyu Islands
SHANGHAI
NANKING
HOPEI
TIENTSIN
PEKING
SHENYANG
PYONGYANG
SEOUL
INCHON
MOKPU
PUSAN
TAEGU
KANAZAWA
CHUNCHON
OSAKA
HIROSHIMA
MATSUYAMA
FUKUOKA
KUMAMOTO
NAGASAKI
NAGOYA
TOKYO
SENDAI
AOMORI
HAKODATE
SAPPORO
VLADIVOSTOCK
KHABAROVSK
BLAGOVESHCHENSK
YUZNO SAKHALINSK
KOMSOMOLSK
NIKOLAYEVSK
JAKUTSK
MAGADAN
PETROPAVLOVSK KAMCHATSKIJ
CHITA
ULAN UDE
IRKUTSK
KRASNOJARSK
NOVO SIBIRSK
ULAN BATOR
CHELYABINSK
SVERDLOVSK
UFA
PERM
KAZAN
GORKIJ
MOSCOW
IVANOVO
MOGILEV
SMOLENSK
MINSK
VILNIUS
KAUNUS
KALININGRAD
RIGA
TALLINN
LENINGRAD
ARKHANGELSK
PETROZAVODSK
HELSINKI
STOCKHOLM
COPENHAGEN
MURMANSK
BERLIN
PARIS
BUDAPEST
BEOGRAD
ROMA
TRIPOLI
LVOV
KIEV
TJERNOVTSY
KICHINEV
TIRASPOL
ODESSA
KURSK
VORONEZH
KHARKOV
DNJEPROPETROVSK
STALINO
ROSTOV
STALINGRAD
KRASNODAR
STAVROPOL
GURYEV
GROZNY
TBILISI
MAKHACHKALA
EREVAN
BAKU
ATHINAI
SIMFEROPOL
ISTANBUL
CHANIA
BENGAZI
IZMIR
RHODES
ANKARA
ORDZHONIKIDZE
BATUM
TABRIZ
RESHT
SANANDAJ
KERMANSHAH
TEHRAN
GORGAN
ASHKHABAD
BUKHARA
SAMARKAND
STALINABAD
MASHAD
ISFAHAN
AHWAZ
SHIRAZ
KERMAN
ZAHEDAN
KABUL
PESHAWAR
RAWALPINDI
SRINAGAR
JAMMU
LAHORE
SIMLA
DELHI
KARACHI
LUCKNOW
KATHMANDU
LHASA
RANCHI
CALCUTTA
DACCA
BHOPAL
BOMBAY
GOA
MADRAS
MYSORE
COLOMBO
KOTARADJA
PENANG
RANGOON
BANGKOK
PHNOM-PENH
SAIGON
DALAT
HUE
NHATRANG
VIENTIANE
HANOI
HAINAN
S. FERNANDO
MANILA
BACOLOD
CEBU
JESSELTON
MENADO
TERNATE
ALEXANDRIA
FAYID
CAIRO
ASSIOUT
LIMASOL
Cyprus
BEIRUT
HAIFA
TEL AVIV
JERUSALEM
BAGHDAD
ISRAEL
DJEDDA
MECCA
KHARTOUM
ASMARA
MASSAUAR
SANAA
DJIBOUTI
ADEN
ADDIS ABBEBA
HARGEISA
NICOSIA
ALEPPO
DAMASKUS
HAKODATE
VLADIVOSTOCK
KAMCHATSKIJ
PETROPAVLOVSK
MURMANSK
ARKHANGELSK
LENINGRAD
TALLINN
RIGA
VILNIUS
KALININGRAD
COPENHAGEN
STOCKHOLM
HELSINKI
PARIS
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TRIPOLI
ATHINAI
ISTANBUL
ANKARA
TEHRAN
KABUL
KARACHI
DELHI
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RANGOON
BANGKOK
SAIGON
HANOI
HUE
MANILA
TOKYO
SAPPORO
HAKODATE
SEOUL
PEKING
SHANGHAI
NANKING
CHUNGKING
KUMAMOTO
NAGASAKI
FUKUOKA
MATSUYAMA
HIROSHIMA
OSAKA
NAGOYA
SENDAI
AOMORI
SAKHALINSK
YUZNO
KOMSOMOLSK
KHABAROVSK
BLAGOVESHCHENSK
CHITA
ULAN UDE
IRKUTSK
KRASNOJARSK
NOVO SIBIRSK
ULAN BATOR
JAKUTSK
MAGADAN
PERM
KAZAN
GORKIJ
MOSCOW
IVANOVO
MOGILEV
SMOLENSK
MINSK
KIEV
KURSK
VORONEZH
KHARKOV
STALINO
ROSTOV
STAVROPOL
GURYEV
GROZNY
TBILISI
MAKHACHKALA
EREVAN
BAKU
TABRIZ
ISFAHAN
SHIRAZ
ZAHEDAN
LAHORE
SIMLA
SRINAGAR
KASHMIR
JAMMU
PESHAWAR
KUMAMOTO
NAGASAKI
FUKUOKA
MATSUYAMA
HIROSHIMA
OSAKA
NAGOYA
TOKYO
SENDAI
AOMORI
HAKODATE
SAPPORO
VLADIVOSTOCK
KHABAROVSK
BLAGOVESHCHENSK
YUZNO
KOMSOMOLSK
NIKOLAYEVSK
JAKUTSK
MAGADAN
PETROPAVLOVSK
KAMCHATSKIJ
CHINGHAI
KANSU
SZECHUAN
TIBET
YUNNAN
HUNAN
CANTON
KWEICHOW
FUKIEN
TAIWAN
TAIPEI
NAHA
Okinawa
Ryukyu Islands
HONGKONG
MACAO
HAINAN
NORTH VIETNAM
SOUTH VIETNAM
CAMBODIA
LAOS
BURMA
THAILAND
MALAYA
BORNEO
SARAWAK
BRUNEI
NORTH BORNEO
MINDANAO
PHILIPPINES
LUZON
CEBU
TERNATE
MENADO
SINKIANG
MONGOLIA
KOREA
JAPAN
Sea of Japan
East China Sea
Pacific Ocean
Arabian Sea
Bay of Bengal
INDIAN OCEAN
EAST
U. S. S. R. NEAR EAST
1:50 Mill.
0 500 1000 1500 2000 KM

ZAMBIA

L.T: GMT+2 h – Pr.L: English, 7 African Vernaculars.

RADIO ZAMBIA (Gov. Dept.)

FI: By state, license fees – AD: 10 min's per h – ADDR: Broadcasting House, P.O. Box RW 15, Ridgeway, Lusaka. Te: 7-2986. Cable: Broadcasts.

STATIONS:	Medium Waves			Service
Lusaka	962 kc	312 m	2 kW	English
Lusaka	698 kc	430 m	2 kW	Home
Kitwe	548 kc	547 m	20 kW	English
Kitwe	746 kc	402 m	20 kW	Home
Livingstone	650 kc	461 m	2 kW	English
Broken Hill	596 kc	505 m	2 kW	English
Ndola	1215 kc	247 m	1 kW	English

Short Waves (Lusaka): * inactive.

kc	m	kW	Sce.	kc	m	kW	Sce.
2355	127.4	2.5	English	6060	49.50	20	Home
2455	122.2	10	Home	6165	48.66	20	English
3270	91.75	10	English	*7220	41.55	10	Home
*3295	91.00	–	–	*7285	41.18	2.5	English
3346	89.68	20	Home	*11822	25.37	–	–
4911	61.08	2.5	English	*11882	25.24	–	–
4965	60.42	10	Home				

D. PRGR: English Service:
W: 03.55–05.30 on 2355/3270kc, 05.30–05.45 on 3270kc, 05.45–06.30 on 3270/4911kc, 06.30–06.45 on 4911kc, 06.45–13.00(Sat 14.30) on 4911/6165kc, 14.30–14.45(Sat) on 4911kc, 14.30(Sat 14.45)–16.30 on 3270/4911kc, 16.30–16.45 on 3270kc, 16.45–21.05(Sat 22.05) on 2355/3270kc. Sun: 05.55–14.30 on 4911/6165kc, 14.30–14.45 on 4911kc, 14.45–16.30 on 3270/4911kc, 16.30–16.45 on 3270kc, 16.45–20.10 on 2355/3270kc.
N: W 04.00*, 05.00, 06.00, 08.00, 09.15**, 10.30, 11.15, 12.00(exc. Sat), 12.15**, 14.30(exc. Sat), 16.00*(exc. Sat), 17.00*(Sat only), 18.00, 20.00, 21.00. Sun 04.00*, 09.00, 11.15, 16.00*, 18.00, 20.00.
* BBC World Sce – ** for Schools Mon–Fri only.

Home Sce:
04.00–05.45(W) on 2455/3346kc, 05.45–06.45 on 3346/4965kc, 06.45–07.00 on 4965kc, 07.00–14.45 on 4965/6060kc, 14.45–15.00 on 4965kc, 15.00–16.45 on 3346/4965kc, 16.45–20.05(Sun 20.10) on 2455/3346kc.
N: 04.00(W), 04.05(W), 04.15(W), 09.30(Sun), 09.35(Sun), 10.45, 10.50, 10.55, 11.00, 11.05, 11.25, 11.30, 16.10, 16.15, 16.20, 16.25, 16.30, 16.35, 16.40. English: Mon–Fri 17.00.
ANN: English Sce: "This is the Zambia Broadc. Sce" or "ZBS broadc. in English" – V. by QSL-card. Rp – PUB: Monthly prgr.schedule, available free upon request – F.PL: Expansion of Educational Broadc. Wilhelm Franz KG, Germany, delivered EMT studio equipment.

ASIA

ADEN (Federation of South Arabia)

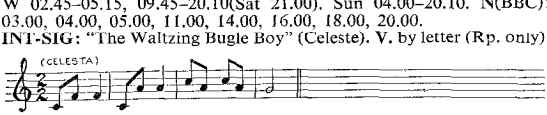
L.T: GMT+3 h – Pr.L: Arabic, English.

SOUTH ARABIAN BROADCASTING SERVICE (Gov. Comm.)

ADDR: P.O. Box 1264, GPO, Aden. Te: 4875. Cable: "Al Irshad" – L.P: Dir. Tec: B. V. Hughes. Dir. Prgr: H. Safi. Sales Mgr: N. Hassanali.
STATIONS: (System: Marconi): 755kc 397m 50kW
5060kc 59.29m 7.5kW d.
HOME SCE. in Arabic: D exc. Fri 03.30–06.00, 12.00–19.30. Fri 03.30–19.30. N: 03.55, 04.45, 06.45(Fri 11.00), 13.00, 15.00, 17.00, 19.00 – ANN: "Idha'at al Ganub al Arabi men Aden" – V. by QSL-card. Rp. preferred. Re. wanted from Arabic speaking countries only – PUB: Prgr. schedule free.
Wilh. Franz KG, Germany: EMT studio equip.

BRITISH FORCES BROADC. SCE. ADEN

is operated by the Ministry of Defence to provide a service of inf, entertainment as well as a link with home for H.M. Forces stationed in Aden and the Persian Gulf. It is non-comm. does not accept adv.
ADDR: Steamer Point, B.F.P.O. 69, Aden. L.P: St. Contr: P. Buckle. Sen. Eng: J. M. Campbell: Prgr. Org: Miss K. Donelly.
STATION (System: Marconi): 1241kc 242m 10kW – D.PRGRS: W 02.45–05.15, 09.45–20.10(Sat 21.00). Sun 04.00–20.10. N(BBC): 03.00, 04.00, 05.00, 11.00, 14.00, 16.00, 18.00, 20.00.
INT-SIG: "The Waltzing Bugle Boy" (Celeste). V. by letter (Rp. only).



ADEN FORCES BROADCASTING ASSOCIATION (Comm. with voluntary staff).
FI: by adv – ADDR: Royal Air Force, Khormaksar, Aden.
STATION: 835kc 1kW – HOME SCE. in English: Mon-Fri 05.20–09.35 & 12.55–20.10, Sat 05.20–23.00. Sun 06.55–20.20. N. (relay BBC/WS): 09.15, 13.00, 18.00, 20.00 – ANN: "This is the Aden Forces Broadc. Association".

Perim Island

BBC – MIDDLE EAST RELAY STATION

Relays of BBC Arabic, English, Somali Sce's for Middle East & East Africa.
STATION: 701kc 428m 400kW: 03.00–07.15, 09.15–21.00.
English: 03.00–03.45, 05.45–07.15, 09.15–11.00. Arabic: 03.45–05.45, 11.00–14.00, 17.30–21.00. Somali: 17.00–17.30.

AFGHANISTAN

L.T: GMT+4 1/2 h – Pr.L: Pushtu, Dari, Persian.

AFGHAN BROADCASTING SYSTEM (Gov.)

ADDR: Ansari Wat, Kabul. Te: 24585. Cable: Techrad – L.P: Pres: M. I. Abbasi. Dir. Prgr: Dr. M. Habibi. Dir. Tec: Eng. M. K. Atai.
STATIONS: mw 20kW, sw 50kW.

kc	m	kc	m	kc	m
660	454.5	4775	62.84	9635	31.14
3985	75.28	7200	41.67	11735	25.56

HOME SCE's: On 660kc: 02.00–04.30, 07.30–18.30. On 4775kc: 02.00–04.30, 10.30–13.30, 14.30–16.30. On 7200kc: 07.30–10.30. On 3985kc: 13.30–14.30.
FOREIGN SERVICE: Urdu: 13.30–14.00 on 4775kc. English: 14.00–14.30 on 4775kc. Russian: 16.30–17.00 on 4775kc. Arabic: 17.00–17.30 on 11735kc. German: 17.30–18.00 on 9635kc.
During summer period 9635kc will be replaced by 15225kc (17.30–18.00) – ANN: "Da R. Afghanistan Kabul Dai" – INT-SIG: A record on national flute – V. by QSL-card. Recordings accepted.

BAHRAIN

L.T: GMT+4 h – Pr.L: Arabic.

BAHRAIN BROADCASTING STATION (Gov.)

ADDR: P.O. Box 253, Manama, Bahrain, Arabian Gulf. Te: 8278 – STATION: 610kc 491.8m 2kW – HOME SCE. in Arabic: D 05.30 (Fri 04.00)–08.00, 16.00–19.30 – N: 07.55, 17.30 – Wrp: 17.45.
ANN: Arabic: "Hunah Bahrain" (This is Bahrain) – INT-SIG: Local composition of guitar and violin – V. by letter – PUB: "Hunah Bahrain" monthly, free on request.

BRUNEI (British Protected State)

L.T: GMT+8 h – Pr.L: Malay, English, Chinese.

RADIO BRUNEI (Gov.)

ADDR: Dept. of Broadc. & Inf, Brunei. Cable: Infoff. Te: 345 – L.P: Dir. of Broadc. & Inf: G. V. De Freitas. Dep. Dir: Md. Abd. Kadir. Chief Eng: N. S. A. Frigout. Press Officer: M. C. Yussof.
STATIONS (System: Marconi, Gates):

895 kc	335 m	10 kW:	07.45–11.00, 13.00–14.30
970 –	309 –	1.2 – :	22.30–06.00, 10.00–14.30
1100 –	272 –	10 – :	(from December 65)
1240 –	242 –	20 – :	22.30–06.00, 10.00–14.30
4865 –	61.66 –	10 – :	07.45–14.30.

HOME SCE: Malay: 22.30–01.00, 04.30–06.00, 10.00–14.30 on 970/1240kc, 11.00–13.00 on 4865kc. N: 23.00, 05.00, 12.00 – English: 03.00–04.30 on 970/1240kc, 09.15–09.30 & 13.00–14.30 on 895/4865 kc. N: 04.15, 09.15(BBC), 13.15 – Chinese: 01.00–03.00 on 970/1240 kc, 09.30–11.00 on 895/4865kc. N: 02.45, 10.45 – Forces Prgr: 07.45–09.15 on 895/4865kc.
ANN: E: "This is R. Brunei". Malay: "Inilah R. Brunei" – INT-SIG: Opens with the sound of Native Tune preceded by TS – V. by QSL-card or letter (for sw. only). Re. to Chief Eng. Recordings accepted.
PUB: "Suara Brunei" (Voice of Brunei) in English, Malay, Chinese.

BURMA

L.T: GMT+6½ h – Pr.L: Burmese, English.

BURMA BROADCASTING SERVICE (Gov.)

ADDR: Prome Rd, Kamayut P.O, Rangoon. Cable: Burbrocast. Te: 31355 – L.P: Dir: Major K. Sunn. Dir. Tec: U. Win Mg, M.I.R.E.
STATIONS (System RCA):

Call	kc	m	kW	Call	kc	m	kW
XZK	955[1]	314.0	50	XZK3	6035[1]	49.71	50
XZK8	1150[2]	261.0	5	XZK4	7120[1]	42.13	50
XZK2	4795[2]	62.57	50				

FM: 100/102/104/106Mc 0.25kW – [1] Prgr. I. [2] Prgr. II.
HOME SCE: Prgr. I: Burmese: 00.30–01.30 on 955/6035kc, 04.30–07.00 on 955/7120kc, 11.00–14.30 on 955/6035kc – N: 01.00, 06.30,

13.30 – **Wrp:** 13.28 – **Folklore Music:** Mon, Wed, Fri 13.45.
English: 01.30-02.30 on 955/6035kc, 07.00-07.30 on 955/7120kc, 14.30-16.30 on 955/6035kc. **N:** 02.00, 07.00, 14.45 – **Mbg:** Wed, Fri 14.30, Sat 07.10, Sun 02.10.
Hindustani: 02.30-02.45 on 955/6035kc. **N:** 02.37(W).
Prgr. II (Burmese): 11.00-14.45 on 1150/4795kc.
ANN: E: "This is the Burma Broadc. Service". Burmese: "Myanma Athan Hma Athan Hlwint Nay Barthe" – **INT-SIG:** Burmese Orchestral Music – **V.** by QSL-card. Rp.

CAMBODIA

L.T: GMT+7 h – **Pr.L:** Cambodian, French, English.
RADIODIFFUSION NATIONALE KHMERE *(RNK-Gov.)*
AD: D 00.00-01.30 – **ADDR:** 28 Ave Preah Mohaksatryany Kossomak, Phnom-Penh. **Te:** 3958. **Cable:** Miformation – **L.P:** St. Dir: V. Peng Kith. Dir: Sæur-Kean. Dep. Dir. & Dir. Prgr: L. Sainvar. Dir. Tec: E. Samréch.
STATIONS: 1410kc 213.0m 20kW
5940kc 50.51m 15kW – 9695kc 30.94m 50kW.
HOME SCE. on 1410/5940kc: *22.30-17.00.* **N:** ***Cambodian:*** *23.00, 05.00, 07.00, 10.00, 12.00, 14.00.* **French:** 23.15, 05.15, 12.30. **English:** 05.30, 12.45 – **Wrp:** 13.00 – **L.L** (English): Tues, Fri 05.45-06.00.
FOREIGN SCE: 01.30-02.30, 03.00-04.00 on 9695kc, 05.15-06.00 on 6090kc, 13.15-15.45 on 9695kc.
ANN: F: "Ici Phnom-Penh, Radiodiff. Nationale Khmère". E: "This is Phnomh-Penh the Voice of Cambodia" – **V.** by letter.

CEYLON

L.T: GMT+5½ h – **Pr.L:** English, Sinhalese, Tamil
RADIO CEYLON (Gov, Comm.)
FI: By state, licences, adv's – **ADDR:** Dept. of Broadc, P.O. Box 574, Colombo 7. **Te:** 91234. **Cable:** Radceylon – **L.P:** Dir. Gen: V. Panditha. Asst. Dir. Gen: L. S. Perera. Chief Eng: N. S. Wickremasinghe. Dir. Nat. Sce: K. H. J. Wijedasa. Dir. Comm. Sce: L. R. Wijemanne (Ag). Listener Research Officer: P. W. S. Perera.
STATIONS:

kc	m	kW	kc	m	kW	kc	m	kW
540	555.5	0.25	4900	61.22	10	6185	48.50	10
640	469.0	0.25	4968	60.38	10	7190	41.71	10
700	428.0	15	5020	59.76	10	9667	31.03	100
870	344.8	0.25	5075	59.13	10	9720	30.86	35
920	326.0	10	6005	49.96	10	11800	25.42	35
1030	294.0	20	6075	49.38	10	15205	19.73	35
4870	61.60	10	6130	48.94	10	15333	19.57	100
						17830	16.83	35

NATIONAL SERVICE
English: D 11.30-17.30 on 920/5020kc. Sun 04.30-07.30 on 920/6185 kc – **N, Wrp:** W: 12.45, 15.30. **Christian Half hour:** Sun 13.30.
Sinhalese: D 01.00-03.00, 11.00(Sun 10.30)-17.00 on 700/4900kc, 06.30(Sun 03.00)-08.00 on 700/6075kc, N: 01.45, 07.15. **Sandya Sevaya:** 13.00-16.00 on 1030/5075kc.
Tamil: 01.15-03.00, 11.30-17.00 on 870/4968kc, 06.30(Sun 03.00)-08.00 on 870/6005kc.
ANN: E: "This is the National Sce. of R. Ceylon". Tamil: "Illankai Vanoli – Thesiya Oliparappu". Sinhalese: "Me Lanka Guwan Viduliye Suwadeshiya Sevayai". "Me Lanka Guwan Viduliye Sandya Sevayai" – **INT-SIG:** All four sce's open with "National Drums" ("Magul Bera") and followed by "Jaya Mangala Gatha" and close with National Anthem ("Sri Lanka Matha").
ANN: "This is the External Sce. of R. Ceylon broadc. to listeners in.."
COMMERCIAL SERVICE
To Ceylon in English, Sinhalese, Tamil:
Sinhalese: 01.30-03.00 on 640/4870kc, 03.00-07.30 on 640/6005kc, 07.30-10.30 on 920/6185kc (Sun on 640/6005kc), 10.30-11.30 on 920/5020kc. **N:** D: 01.45, 07.15 – **Tamil:** 04.30-05.30, 09.30-10.30 on 640/6005kc, 10.30-12.30 on 640/4870kc.
English: 01.30-03.00 on 920/5020kc, 03.00-04.30 on 920/6185kc, 07.30-09.30 on 640/6130kc (Sat/Sun 07.30-10.30 on 920/6185kc), 10.30-11.30 on 920/5020kc, 12.30-17.30 on 640/4870kc. **N:** D: 02.00, 07.45, 12.45.
To Asia in English, Hindi, Tamil:
English: 01.30-03.30(Sun 04.30) on 9667/15205kc, 12.30-16.45 on 9667kc – **N:** 02.00, 13.00(BBC).
Hindi, Tamil: 01.30-04.30(Sun 07.30) on 7190/9720/11800kc, 11.00 (Sun 10.30)-17.30 on 6075/9720/11800kc.
EXTERNAL SERVICES in English:
To Europe, No. Africa and M. East: 07.00-08.15 on 15333kc.
To So. Ea. Asia: 09.15-10.30 on 17820kc. **N. in English:** 07.20, 09.35.
ANN: E: "This is the Comm. Sce. of R. Ceylon". Sinhalese: "Me Lanka Velanda Guwan Viduli Sewayai". Tamil: "Illankai Vanoli Varthaga Oliparappu". Hindi: "Yeh R. Ceylon Ka Vyappar Vibhag Hai" – **INT-SIG:** Opens and closes with an oriental folk theme – Gajaga Vannama – **V.** by QSL-card or letter. Re. in E. to be addressed to Listener Research Officer. Recordings accepted – **PUB:** R. Times (fortnightly).

VOICE OF AMERICA RADIO STATION IN CEYLON
ADDR: Voice of America, Washington 25, D.C. USA.
STATIONS: Colombo 35kW: 01.00-03.30, 12.00-18.00.
7110kc 42.19m – 7275kc 41.24m – 11835kc 25.35m – 15285kc 19.63m
01.00-03.30 on 7275/11835kc, 12.00-18.00 on 7110/11835/15285kc, 15.30-18.00 on 7110/7275/11835kc.
English: 01.00-03.30, 12.00-18.00. **Hindi:** 14.30-15.00, 15.30-16.00. **Urdu:** 16.00-16.30. **Tamil:** 14.00-14.30.
ANN: "This is Colombo relaying Voice of America Programs" – **INT-SIG:** 20 seconds variations of "Columbia the Gem of the Ocean". **V.** by QSL-card.

CEYLON REDIFFUSION SERVICE LTD. (Gov. Comm.)
ADDR: P.O. Box 1002, Colombo. **Cable:** Rediffusion. **Te:** 7247 – **L.P:** St. Mgr: R. L. Kettle – Four prgr's (English, Hindi, Tamil, Telugu) via wired network.

THE PEOPLE'S REPUBLIC OF CHINA

L.T: GMT+8 h (Urumchi: GMT+6 h) – **Pr.L:** Chinese.
BROADCASTING ADMINISTRATION (Gov.)
ADDR: Broadc. Adm. Fu Hsin Men, Peking – **L.P:** Dir. Gen: M. Yi. Dir. International Liaison Dept: F. Chiung.

HOME SERVICE

CENTRAL PEOPLE'S BROADC. STATION:
Medium Waves:

kc	kc	kc	kc	kc	kc	kc	kc	kc	kc	kc	kc
540	610	690	760	820	910	1000	1050	1150	1250	1350	1470
560	630	710	780	830	960	1010	1070	1160	1280	1370	1480
570	640	720	790	850	970	1020	1090	1210	1290	1400	1500
590	660	730	810	890	980	1030	1140	1230	1330	1450	1510
600	680	750									

Short Waves:

kc	m	kc	m	kc	m	kc	m	kc	m
3225	93.05	6212	48.29	9020	33.26	11290	26.57	15300	19.61
3290	91.90	6225	48.19	9064	33.09	11330	26.47	15313	19.59
3390	88.50	6595	45.48	9170	32.70	11455	26.19	15445	19.43
3830	*78.33*	*6790*	*44.18*	*9340*	*32.12*	*11515*	*26.05*	*15480*	*19.38*
3860	77.44	6810	44.05	9570	31.35	11630	25.79	15550	19.29
3915	76.63	6890	43.54	9620	31.19	11660	25.73	15590	19.24
3985	75.28	6995	42.89	9670	31.02	11675	25.70	15610	19.22
4250	70.59	7065	42.46	9710	30.90	11690	25.66	15710	19.10
4460	67.26	7100	42.25	9717	30.88	11725	25.59	15880	18.89
4500	66.67	7170	41.84	9735	30.82	11860	25.30	17450	17.19
5075	59.13	7195	41.70	9765	30.72	11910	25.19	17490	17.15
5125	58.54	7240	41.44	9860	30.42	11925	25.16	17533	17.11
5320	56.39	7265	41.29	9920	30.24	11935	25.14	17605	17.04
5535	54.10	7305	41.07	9945	30.17	15030	19.96	17635	17.01
5915	50.72	7370	40.71	9972	30.08	15175	19.77	17780	16.87
6065	49.46	7500	40.00	10260	29.24	15240	19.69	17880	16.78
6100	49.18	7620	39.37	11100	27.03	15290	19.62	17900	16.76
6155	*48.74*								

D.PRGR'S: No information available.

LOCAL STATIONS

Name	kc	Name	kc
Peking	820, 1210, 1350, 1480	Chinghai	800, 1250, **6260, 6500, 9500**
Shanghai	850, 990, 1070, 1110, 1210, 13.00 1500	Singkiang	550, 740, 910, **4220, 4500, 4770, 6280, 7050, 7385, 9470, 10245**
Hopei	780, 850, 910 1080, 1280, 1330, 1440, 1470	Shantung	920, 1110, 1450, **2350**
Tientsin	870, 950, 1070, 1390	Chekiang	800, 820, 960, 1350, 1370, **2475**
Inner Mongolia A	960, 1460, **3970, 4068, 6840, 6974, 9365, 9472, 11040**	Fukien	860, 880, 930, 950, 1210, 1250, 1430, 1560, **2340**
Inner Mongolia B	*1070, 1360, 3900, 4000*	Hunan	1260, **4990**
Bayinor	1270, **4000**	Canton	790, 890, 1400
Silingol	1310, **4525**	Kwangsi	620, 1320, 1330, 1390, 1410, 1450, **5010, 5920**
Heilungkiang	270, 620, 1110, 1410, 1530	Kweichow	930, 1030, **3260**
Harbin	660, 970, 1400	Szechuan	1220, **7225**
Shensi	900, 1350, **6176**	Chungking	1080, 1310
Kansu	860, **6155**, 7324	Yunnan	820, 1380, **6937, 9990**
		Tibet	590, **4035**, 5935, **9490**

FOREIGN SERVICE

Medium Waves: 1020kc 294m, 1040kc 289m, 1190kc 252m, 1300kc 231m, 1340kc 223.8m.

Short Waves:

kc	m	kc	m	kc	m	kc	m	kc	m
4020	74.63	6325	47.43	7350	40.82	9965	30.11	15140	19.82
4910	61.10	6345	47.28	7370	40.71	11445	26.21	15150	19.80
5075	59.11	6400	46.81	7450	40.27	11505	26.08	15190	19.75
5145	58.31	6825	43.96	7480	40.11	11650	25.75	15210	19.72
5860	51.20	6860	43.72	9457	31.73	11675	25.70	15220	19.71
5880	51.02	6890	43.54	9480	31.65	11685	25.67	15235	19.69
5915	50.71	6955	43.13	9490	31.61	11690	25.66	15250	19.67
5935	50.55	7035	42.64	9500	31.58	11715	25.61	15260	19.66
5950	50.42	7060	42.49	9510	31.55	11730	25.58	15270	19.65
5970	50.25	7065	42.46	9550	31.41	11740	25.55	15290	19.62
5985	50.13	7080	42.37	9555	31.40	11750	25.53	15345	19.55
5990	50.08	7095	42.28	9570	31.35	11780	25.47	15370	19.52
6000	50.00	7115	42.16	9585	31.30	11800	25.42	15417	19.46
6025	49.79	7125	42.11	9590	31.28	11820	25.38	15430	19.44
6035	49.71	7135	42.05	9595	31.37	11860	25.30	15500	19.35
6065	49.46	7150	41.96	9600	31.25	11885	25.24	15520	19.33
6080	49.34	7160	41.90	9650	31.09	11910	25.19	15670	19.15
6120	49.02	7180	41.78	9660	31.06	11945	25.12	17675	16.97
6125	48.98	7200	41.67	9665	31.04	11955	25.09	17680	16.97
6135	48.90	7205	41.64	9690	30.96	11965	25.07	17720	16.93
6145	48.82	7210	41.61	9755	30.76	11975	25.05	17730	16.92
6150	48.78	7230	41.49	9775	30.69	11980	25.04	17745	16.91
6155	48.74	7265	41.29	9785	30.66	12010	24.98	17765	16.89
6170	48.62	7270	41.27	9800	30.62	12055	24.88	17810	16.84
6180	48.54	7295	41.12	9860	30.43	15030	19.96	17835	16.82
6200	48.39	7300	41.09	9880	30.36	15060	19.92	17860	16.80
6210	48.31	7315	41.01	9900	30.30	15080	19.89	17885	16.78
6270	47.85	7325	40.96	9920	30.24	15095	19.87	17900	16.76
6290	47.70	7335	40.90	9945	30.17	15115	19.85		

D.PRGR'S: No information available.
ANN: E: "This is Radio Peking" – F: "Ici Radio Pekin" – G: "Hier ist Radio Peking" – P: "Aqui Pequim" – R: "Govorit Pekin" – Sp: "Aqui Pekin".
INT-SIG: – V. by QSL-card or letter. Recordings accepted.

REP. OF CHINA (Taiwan)

L.T: GMT+8 h (Su: GMT+9 h) – **Pr.L:** Chinese.

BROADCASTING CORPORATION OF CHINA

(Priv. enterprise under Gov. contract).

ADDR: New Park, Taipei. **Te:** 37511. **Cable:** "Broadcast". – **L.P:** Man. Dir: Lee Shih-feng. Dir. Tec: K. S. Yeh.

STATIONS: Medium Waves:

Call	kc	kW	Call	kc	kW	Call	kc	kW
BED34	660	20	BED26	1040	1	BED63	1350	1
BED58	720	10	BED43	1060	1	BED23	1380	1
BED2	750	150	BED57	1070	10	BED65	1380	1
BED28	820	1	BED72	1120	0.5	BED87	1390	1
BED25	860	1	BED86	1160	1	BED54	1410	1
BED27	860	1	BED89	1160	1	BED80	1410	1
BED24	890	1	BED32	1190	1	BED48	1450	3.5
BED85	890	1	BED50	1200	100	BED82	1460	1
BED55	960	20	BED88	1200	1	BED81	1470	1
BED62	1000	50	BED79	1220	1	BED83	1500	1
BED53	1020	3.5	BED47	1280	1	BED78	1540	1

Short Waves (Systems: STC, GE):

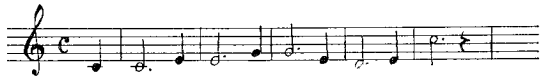
Call	kc	m	kW	Call	kc	m	kW
BED59	3215	93.31	3.5	BED8	9720	30.86	50
BED31	3230	92.88	1	BED91	9655	31.07	10
BED20	3335	89.96	10	BED75	11725	25.59	50
BED30	5980	50.17	3.5	BED69	11825	25.37	25
BED9	6040	49.67	7.5	BED45	11860	25.30	50
BED77	7110	42.19	1	BED44	11905	25.20	3
BED7	7130	42.08	50	BED37	11970	25.06	3
BED35	7150	41.96	3	BED60	15125	19.83	100
BED21	7250	41.38	10	BED36	15280	19.63	3
BED41	9560	31.38	10	BED38	15320	19.58	3
BED33	9630	31.15	3	BED49	15345	19.55	25
BED73	9685	30.98	25	BED40	17890	16.77	50
BED22	9690	30.96	10				

HOME SCE. in Chinese:
1st Net: 660kc 21.00–17.10 – **2nd Net:** 960kc 21.00–22.00, 00.00–02.00, 03.55–16.00 – **3rd Net:** 890kc 21.00–01.00, 04.00–15.00.
FOREIGN SCE: I=No. Am/Japan; II=So. Ea. Asia; III=Korea; IV=Japan/Korea; V=Australia/N.Z; VI=Tibet; VII=Madagascar; VIII=Middle East; IX=Africa.

Schedule (Nov 65–March 66)

Times	Languages	Areas	kc
02.50–03.50	English	I	7130, 11825, 11860, 15345
04.00–04.30	Amoy	II	7130, 11860, 11825, 15345
04.30–05.00	Cantonese	II	
05.30–06.00	Chauchow	II	
06.00–06.30	Vietnamese	II	11825, 11860
06.00–06.30	Malayan	II	7130, 15345
09.30–10.00	Korean	III	7130, 9655
10.00–10.45	English	IV	9685, 11825
10.45–11.15	Japanese	IV	11860
11.30–12.00	Dragon Show	II+V	7130, 9685
12.00–12.30	Malay	II+V	9720, 11825, 17890
12.30–13.30	Mandarin	II+V	7130, 9685, 9720, 11825, 15125, 17890
13.35–13.50	Tibetan	VI	11825
13.30–14.00	Chauchow	II	7130, 9685, 9720, 15125, 17890
14.00–14.30	Hakka	II	7130, 9685, 9720, 11825, 15125, 17890
14.30–15.00	Cantonese	II	7130, 9685, 9720, 11725, 11825, 15125, 17890
15.00–15.30	Amoy	II	
15.30–16.10	English	II	
16.15–16.45	Arabic	VIII	9685, 9720, 11725, 11825, 15125, 17890
16.45–17.15	French	IX	
17.15–18.00	Cantonese	VII	

NEWS: English: 02.53–03.00, 03.23–03.30, 10.22–10.32, 15.42–15.52. **Japanese:** 11.03–11.15. **French:** 16.48–16.58.
ANN: Home Sce: "This is BCC the 1st (2nd, 3rd...) net. (in Chinese)". For Overseas: E: "This is the Voice of Free China (a call of freedom in Asia)".
INT-SIG:



V. by letter or QSL-card. Re. in English & Chinese. Recordings accepted
PUB: Prgr.sched. free.

DEPARTMENT OF POSTS AND TELECOMMUNICATIONS

Ministry of Communications is a gov. authority responsible for determining power, frequency and supervising operations of all gov. & priv. radio & TV stations.
ADDR: No. 2, Sec. 1, Changsha Street, Taipei. **Te:** 23901–523. **L.P:** Dir: L. C. Fei.

TAIWAN COMMERCIAL BROADC. STATIONS ASSOCIATION

ADDR: No. 15, Lane 1, Shuanyuan Street, Sanchung City, Taipei. **Te:** 972004 – **L.P:** Man. Dir: P. Shen.

CHENG SHENG BROADCASTING CORP. (Comm.)

ADDR: 433 Chungking North Rd, Sec. 3, Taipei. **Te:** 48281. **Cable:** CSBCOD. – **L.P:** Pres: Y. Lee. Gen. Mgr: L. Lee. Dir. Tec: G. D. Tue. Dir. N: Y. Nieh.
STATIONS:

Call	kc	kW	Call	kc	kW	Call	kc	kW
1) BEC34	820	1	3) BEV59	850	1	6) BEV60	1020	1
2) BEV35	1340	1	4) BEV36	1130	1	7) BEV37	1270	1
3) BEV58	1230	1	5) BEV72	930	1			

1) Cheng Sheng, The First Dept, Taipei – 2) Cheng Sheng, The Second Dept, Taipei – 3) BEV 58: The Farmers Broadc. St, First Dept. Taichung. BEV59: The Farmers Broadc, St. Second Dept. Taichung – 4) Yun Lin Broadc. St, Yun-Lin – 5) Kung Yi Broadc. St, Chiayi – 6) Cheng Yen Broadc. St, Kaohsiung – 7) Cheng Tung St. Taitung.
HOME SCE: 1) 21.00–18.00. **N:** Mandarin: Every h on the h – V. by letter. Recordings accepted.

THE VOICE OF RIGHTEOUSNESS (Gov.)

ADDR: 210 Chi-San-Yen, Shih Lin, Taipei County – **L.P:** Dir. Gen: J. S. Shaw – **STATIONS:** BEC78 620kc 1kW – BEC77 5995kc 50.04m 1kW – BEC76 7200kc 41.67m 1kW.
HOME SCE in Chinese: 12.00–15.00. **N:** 12.00, 12.20, 12.40, 13.00, 13.40, 14.00, 14.40 – V. by letter. Re. in Chinese or English.

CHINA YOUTH BROADCASTING STATION (Gov.)

ADDR: 131 Duen Huah Rd, Taipei – **L.P:** Gen. Mgr: M. T. Hwang. Chief Eng: Y. C. Wang. Prgr. Mgr: L. G. Leu.
STATIONS: BEG22 1150kc 3kW – BEG20 7180kc 41.78m 0.5kW.
HOME SCE. in Chinese: 21.00–01.00, 03.30–07.00, 09.30–15.30.
ANN: "This is the Voice of Youth" (in Chinese only) – V. by letter. Recordings accepted.

FU HSING BROADCASTING STATION (Gov.)
ADDR: P.O. Box 799, Taipei. **Te:** 942448 – **L.P:** Dir. Gen: C. Kung. Dir. Tec: L. L. Mou.
HOME SCE. in Mandarin: Taipei: 20.50–17.10 on 790/1090/1510kc (BEH4/6/8), 20.50–17.10 on 910kc (BEH5) – **Taichung:** 20.50–02.05, 02.50–06.05, 08.20–17.05 on 910/1090/590/1510kc (BEH32/33/34/35) – **Kaohsiung:** 20.50–02.05, 02.55–06.05, 08.25–17.05 on 590/910/1090/1510kc (BEH42/43/44/45) – **Taitung:** 20.50–02.05, 02.50–06.00, 08.20–17.05 on 1090kc (BEH52) – **Hualien:** 20.50–02.05, 02.55–06.05, 08.25–17.05 on 1090kc (BEH56) – **Hsinchu:** 20.50–02.05, 02.50–06.05, 08.20–17.10 on 910/1090kc (BEH62/63) – **Ilan:** 20.50–02.05, 02.55–06.00, 08.25–17.00 on 910kc (BEH53).

POLICE BROADCASTING NETWORK (Gov.)
ADDR: No. 1, Tientsin Str, Taipei. **Te:** 24761 – **L.P:** Dir. Gen: C. Y. Tsuan. Dir. Tec: Hsu-Ming.
HOME SCE: W 21.15–07.00, 08.20–16.00. Sun 23.30–17.00.

	Call	kc	m	kW		Call	kc	m	kW
Taipei	BEP22	1260	238	10	Changwa	BEP24	680	441.2	1.5
–	BEP23	5960	50.34	1	Kaohsiung				
Hsinchu	BEP26	1120	267.8	1.5		BEP25	1120	267.8	1.5

N: 22.00, 23.30, 00.30, 02.30, 03.30, 04.30, 05.30, 07.30, 08.00, 09.30, 11.30, 13.30, 14.30, 15.30, 15.50 – **ANN:** "This is Police Broadc. St" (in Chinese only) – **V.** by letter – **PUB:** Prgr. schedule free.

MILITARY BROADCASTING STATIONS (Gov.)
ADDR: Military Broadc. Corps, Ministry of National Defense, Taipei. The Military Broadc. Corps and The Air Force Broadc. St. are two different organizations. The first belongs to the Political Dept. and Ministry of National Defense, the latter to Headquarters of Chinese Air Force. They are without any relationship in their adm. and service.
STATIONS:

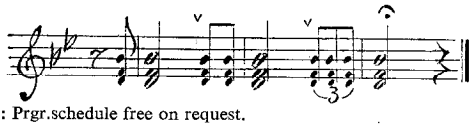
	Call	kc	m	kW		Call	kc	m	kW
1)	BEC22	1100	272	1.5	4)	BEC32	690	434.8	1.5
	BEC23	1520	197.4	3	5)	BEC33	1350	222.2	1.5
	BEC24	**7280**	**41.21**	**1.5**		**BEC34**	**7270**	**41.27**	**1.5**
2)	BEC25	700	428.6	3	6)	BEC35	770	389	0.5
	BEC26	**6090**	**49.26**	**3**		BEC36	1330	225.6	1.5
3)	BEC27	1290	232	1.5		**BEC37**	**5985**	**50.13**	**1**
	BEC28	**7240**	**41.44**	**1.5**	7)	BEC38	840	357.1	0.3
4)	BEC29	1250	240.0	1.5		BEC39	1490	201.34	3

1) No. 3 Section 1, Hsinyi Road, Taipei: 22.00–24.00, 03.00–07.00, 09.00–16.00 – **V.** by QSL-card – 2) Lanyealif, Shyhlin, Taipei: 22.00–03.00, 10.00–17.30 – 3) No. 3, Shyhfun Rd, Taichung: 22.00–03.00, 09.00–16.00 – 4) No. 101, Third Jengieng Rd, Kaohsiung – **V.** by QSL-card – 5) No. 38 Sanmin Str, Hualien: 22.00–24.00, 03.00–07.00, 09.00–17.00 – 6) No. 40, New Mingdertsuen, Tsoying: 22.00–24.00, 03.00–07.00, 09.00–17.00 – **V.** by QSL-card – 7) No. 14, Minsheng Rd Maagong, Penghwa.

AIR FORCE BROADCASTING STATION (Military)
ADDR: 1st and 2nd Dept: 44 Section 2, Jen Ai Rd, Taipei. **Te:** 28981.
STATIONS (System: RCA):

BEC70	980kc 306.1m 3.5kW	BEC72	710kc 422.5m 1.5kW
BEC60	1440kc 208.3m 1 kW	BEC71	7260kc 41.32m 3,5kWd
BEC61	6105kc 49.14m 7.5kWd	BEC62	9745kc 30.76m 3.5kWd

HOME SCE. in Mandarin: Taipei (Main st.): 1st Dept: On 980/7260kc: 21.00–01.05, 03.55–06.45, 08.55–18.00. **N:** 23.00, 02.30, 06.00, 10.00, 12.00. **English lessons:** 22.00. **English Songs:** 13.30, 14.30 – 2nd Dept: On 1440/6105kc: 20.55–00.05, 11.55–18.00. **N:** 21.00, 22.30, 12.00, 13.30, 15.30, 17.00. **Taichung:** On 1430/9745kc: 20.55–00.35, 03.55–06.05, 08.55–17.05. **English lessons:** 10.00 – **Tainan** (710kc): 22.00–00.35, 03.55–06.05, 09.55–16.35. **English lessons:** 23.00.
ANN: "Voice of Chinese Air Force" – **INT-SIG:** (2nd Dept.) Sign of Freedom – **V.** by QSL-card.



PUB: Prgr.schedule free on request.

ARMED FORCES RADIO TAIWAN (U.S. Armed Forces)
ADDR: Box 13, APO San Francisco 96263, Calif, USA. **Te:** 31375 or U.S. Military 4173 – **L.P:** Mgr: Lt. R. B. Howard, USN. Dir. Tec: R. W. Henning. Dir. Foreign Rel. & Prgr: G. Grow.
STATIONS: mw 5kW, sw+FM 1kW.
1560kc 192m – 3990kc 75.19m – 7215kc 41.58m – 100.1Mc
Relay st's: Taichung 1570kc 1kW – Tainan 1580kc 1kW.
HOME SCE. in English: 24 h (exc. Sun 17.05–21.55).
N: every h on the h – **ANN:** "This is the Armed Forces Network Taiwan (Taipei, Tainan, Taichung)" – **V.** by QSL-card. Recordings accepted.

Where to obtain the WRTH: see page 303

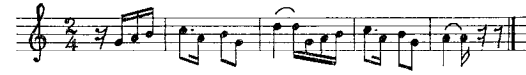
CYPRUS

L.T: GMT+2 h – **Pr.L:** Greek, English, Turkish.
CYPRUS BROADCASTING CORPORATION (Gov, Comm.)
FI: Go. subsidized, Comm. adv. income – **AD:** 30 min d – **ADDR:** P.O. Box 1824, Nicosia. **Cable:** Broadcasts. **Te:** 5231 – **L.P:** Dir: Gen: V. I. Markides. Chief Eng: P. T. Astreos. Adm. Secr. & Public Rel. Officer: J. Hadjiossif.

STATIONS:	kc	m	kW		kc	m	kW
Nicosia	606	495	20	Paphos	915	326	2
Nicosia	692	434	20	Limassol	1484	202.2	0.5

HOME SERVICE

GREEK on 692/915/1484kc: W 05.00(Su 04.30)–07.00(Su 06.30), 10.00–11.45, 15.00–21.00. Sun 05.00(Su 04.30)–11.45, 15.00–21.00. **N:** 05.30(Su 05.00), 11.30, 20.00.
TURKISH on 606kc: W 05.00(Su 04.30)–07.00(Su 06.30), 10.00–11.45, 14.30–16.45. Sun 05.00(Su 04.30)–11.45, 14.30–16.45. **N:** 05.15, 11.15, 16.30.
ENGLISH (on all freqs): 11.30–12.30, 16.45–19.00. **N. Wrp:** 12.00, 17.15.
ANN: Greek: "Radiofonikon Idryma Kyprou". Turkish: "Burasi Kibris Radyo Yayin Korporasyonu" – **INT-SIG:** Avkoritissa played on Guitar – **V.** by letter. Recordings accepted.



The Marconi Company Ltd, G.B. delivered mw-tr's (2×20kW 1×2kW). Wilh. Franz KG, Germany: EMT studio equip.

BRITISH FORCES BROADC. SCE. CYPRUS
is operated by the Ministry of Defence to provide a sce of inf, entertainment as well as a link with home for H.M. Forces in Cyprus. It is non-comm, does not accept adv – **ADDR:** B.F.P.O. 53, Cyprus – **L.P:** St. Contr: R. W. Morgan. Eng-in-Charge: M. E. Townly. Prgr. Org: D. J. H. Davis.
STATIONS: Nicosia 1439kc 208m 1kW – Limassol 1403kc 213.8m 7.5kW – Akrotiri 92.1Mc 20kW – Dhekelia 99.6Mc 20kW.
D.PRGRS: W 04.00–06.15, 10.30–21.09(Sat 22.09). Sun 05.00–21.00. **N:** 04.00(W), 05.00, 06.00, 11.00, 14.00, 16.00, 18.00, 20.00(Sat), 21.00 – **Wrp:** 04.10(W), 05.15, 06.15(Sun), 16.10 – **Rlg:** 04.10(W), 21.00. Sun: 05.00, 17.15.
ANN: "This is the British Forces Broadc. Sce. Cyprus" – **INT-SIG:** "The Waltzing Bugle Boy" (Celeste) – **V.** by QSL-card. **PUB:** Prgr. sched. free. Rp.

BCC

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Voice of Free China

International Service

BROADCASTING CORPORATION OF CHINA

Taipei, Taiwan, Republic of China

for

fast and comprehensive coverage

of

THE FAR EAST

FREQUENCIES:

7130-Kc	11860-Kc
9655-Kc	15125-Kc
9685-Kc	15345-Kc
9720-Kc	17720-Kc
11725-Kc	17785-Kc
11825-Kc	17890-Kc

BBC-EAST MEDITERRANEAN RELAY
Relays of the BBC Arabic Service and the BBC World Service
I=No. Egypt, Jordan, Israel, Lebanon, Syria; II=Arabia; III=Egypt, Jordan, No. Arabia; IV=Iraq, Syria, Cyrenaica; V= Aden, Jordan, Libya, Syria; VI=Sudan, Egypt; VII=Iraq, Persian Gulf.

BBCWorld Sce:	Area	kc				
03.00–06.30	I	1421	16.00–21.00	IV	638, 719	
13.00–21.15	I	1421	03.00–08.00	V	6120	
Arabic Sce*	Area	kc	11.00–21.00	V	6120	
03.00–08.00	II	6120, 7140	03.00–08.00	VI	9650	
11.00–15.45	II	11720	11.00–21.00	VI	9650	
16.00–21.00	II	6120, 7140	03.00–08.00	VII	7140	
03.00–08.00	III	638, 719	11.00–16.00	VII	7140, 11720	
11.00–16.00	III	638, 719	16.15–17.00	VII	9690	
			17.00–21.00	VII	7140	

* includes World Service 03.00–03.45 & 05.45–08.00; 638, 7140, 9690kc carry Persian 16.15–17.00.

HONG KONG (British)

L.T: GMT+8 h (Apr–Oct+9 h) – **Pr.L:** Chinese.

RADIO HONG KONG (Gov.)
ADDR: Mercury House, P.O. Box 200, Hong Kong. **Cable:** Broadcasts. **Te:** 226822 – **L.P:** Dir. of Broadc: D. E. Brooks. Chief Eng: R. Winyard. Head Chinese Sce: N. Y. Chow. Head, English Sce: T. A. Birch.
STATIONS: [1] Chinese Sce. [2] English Sce.
[1] 540kc 468.7m – [1] 3940kc 76.14m 2.5kW –
[2] 860kc 348.8m – [2] 91Mc 50kW – [1] 94Mc 50kW.
HOME SCE: English: 23.00–16.00 – **N:** 00.00, 05.15, 11.00 (BBC Newsreel), 15.00 – **Wrp:** 23.58, 10.58, 13.13, 14.58.
Chinese: 23.00–16.00 – **N:** 00.00, 05.30, 10.00, 12.00*, 12.30 – **Wrp:** 23.58, 05.28, 11.58, 15.30 – * Rel. Far Eastern st. from London.
ANN: English: "This is R. Hong Kong" – Chinese: "Ni do hai Heung Kong Kwong bor deen toy" – **V.** by QSL-card. Recordings accepted. AKG, Austria, Ampex, UK, Marconi, UK: Studio Equipment – S.T.C. Marconi Co. G.B.: Tr's – Wilh. Franz KG, Germany: EMT studio equip.

HONG KONG COMMERCIAL BROADCASTING CO.
FI: By adv – **ADDR:** P.O. Box 3000, Hong Kong. **Te:** 236223. **Cable:** Radioads – **L.P:** Man. Dir: G. Ho. Dir. Tec: W. S. Ip.
STATIONS (System: AWA, Can. G.E):
1050kc 2kW: Cantonese – 1170kc 2kW: Cantonese.
1530kc 2kW: English.
HOME SCE. on all freq's: 23.00–16.00.
English: N: 00.00, 05.15, 10.00, 11.00, 12.00, 13.00, 14.00, 15.00 (Newsreel), 16.00 – **Wrp:** 00.10, 05.30, 08.30, 10.10, 12.15, 14.15, 16.00 – **Cantonese: Wrp:** 23.45, 00.00, 05.28, 12.30(Sun), 13.30(W), 15.00 – **L.L:** (English): W 23.30–23.45 – **ANN:** E: "Commercial Radio Hong Kong" – **INT-SIG:** Chimes – **V.** by letter. Recordings accepted.

REDIFFUSION (HONG KONG) LTD. A subsidiary of Redif. Internat. Ltd, London (Comm.) – **FI:** By subscription charges and adv – **ADDR:** P.O. Box 121, Gloucester Rd, Hong Kong. **Cable:** Rediffuse. **Te:** 72–2211 – **L.P:** Man. Dir: G. H. Oldridge. Comm. Mgr: J. Sloan. Chief Eng: A. T. B. Bardens – 3 simultaneous wired broadc. netw's – Originating own prgr's, also relay R. Hong Kong, BBC, etc: D 23.00–16.00.

INDIA

L.T: GMT+5½ h – **Pr.L:** Hindi, Marathi, Gujarati, Oriya, Bengali, Assamese, Tamil, Telugu, Urdu, Kannada, Kashmiri, Sanskrit, Dogri, Sindhi, Punjabi, Malayalam, English.

ALL INDIA RADIO (Gov.)
ADDR: Directorate General, Akashvani Bhavan, Parliament Str, New Delhi 1. **Te:** 30101. **Cable:** Airgeneral. **L.P:** Dir. Gen: Dr. V. K. Narayana Menon. Dep. Dir Gen(Prgr): K. S. Mullick. Dir. Prgr: B. S. Anand. Dep. Dir. Gen(Adm): S. Parmeshwaran. Dep. Dir. Gen. (Inspection): A. K. Sen. Chief Eng: S. S. Alyar. Dir. News Sce: B. R. Streenivasan. Dir. External Sce: Dr. A. M. Natesh. Dir. Staff Training: S. C. Parashar.
STATIONS: Medium Waves:

North Regional	kc	m		kc	m
Delhi A	810	370.4	Allahabad B	1420	211.3
Delhi B	1070	280.4	Jabalpur	1180	253.0
Delhi C	1370	219.0	Patna A	620	483.9
Delhi D	1570	191.1	Patna B	1500	200.0
Lucknow A	760	394.7	Jullundur	710	422.5
Lucknow C	1320	227.3	Jaipur A	1480	202.7
Allahabad A	950	315.8	Jaipur B	1290	232.6
Ajmer	600	500.0	Vishakhapatham	930	322.6
Indore A	650	461.5	Cuddapah	1130	25.21
Indore B	1590	188.7	Bhadrawathi	800	375.0
Bhopal A	1520	197.4	**West Regional**		
Bhopal B	1200	250.0	Bombay A	1040	288.5
Chandigarh	1220	246.0	Bombay B	550	545.5
Ranchi	560	535.7	Bombay C	1230	243.9
Varanasi	1240	241.9	Nagpur A	590	508.5
Bikaner	1330	225.6	Nagpur B	660	434.5
Kanpur	1440	206.9	Ahmedabad	850	352.9
Raipur	980	306.1	Baroda	850	352.9
Gwalior	1390	215.8	Poona A	780	384.6
South Regional			Poona B	970	309.5
Madras A	720	416.7	Rajkot A	910	329.7
Madras B	1420	211.3	Rajkot B	1420	211.3
Madras C	1550	193.5	Panjim (Goa)	880	340.9
Tiruchi A	940	319.1	Sangli	1250	240.0
Tiruchi B	1480	202.7	**East Regional**		
Tirunelveli	1200	250.0	Calcutta A	670	447.8
Vijayawada A	840	357.1	Calcutta B	1000	300.0
Vijayawada B	1500	200.0	Calcutta C	1540	194.8
Trivandrum	660	454.5	Cuttack A	965	310.9
Calicut A	680	411.2	Cuttack B	1350	222.2
Calicut B	1090	275.0	Gauhati A	730	411.0
Trichur	580	517.2	Kohima	1490	201.3
Hyderabad A	740	405.4	Sambalpur	860	348.8
Hyderabad C	1220	245.9	Siliguri	1560	192.3
Bangalore A	610	491.8	Port Blair	1440	208.3
Bangalore B	820	365.9	Imphal	1390	215.8
Dhawar A	1360	220.6	Jeypore	1460	205.5
Dhawar B	1160	258.6			

Short Waves: Delhi VUD: 10/20/100kW:

kc	m	kc	m	kc	m	kc	m	kc	m
3295	91.05	6150	48.78	9535	31.46	11740	25.55	15165	19.78
3365	89.15	6185	48.50	9560	31.38	11760	25.51	15180	19.76
3905	76.82	6190	48.47	9575	31.33	11780	25.47	15185	19.76
3925	76.43	7105	42.22	9600	31.25	11785	25.46	15190	19.75
4760	63.03	7125	42.11	9615	31.20	11810	25.40	15210	19.72
4800	62.50	7135	42.05	9630	31.15	11840	25.34	15225	19.70
4960	60.48	7195	41.70	9655	31.07	11845	25.33	15240	19.69
4962	60.45	7210	41.61	9665	31.04	11850	25.32	15290	19.62
5955	50.38	7225	41.52	9690	30.96	11855	25.31	15310	19.60
5980	50.17	7235	41.47	9705	30.91	11865	25.28	17705	16.94
5985	50.13	7255	41.35	9730	30.83	11890	25.23	17715	16.93
5990	50.08	7260	41.32	9765	30.72	11895	25.22	17735	16.92
5995	50.04	7265	41.29	9915	30.26	15105	19.86	17820	16.84
6010	49.92	7285	41.18	10335	29.03	15125	19.83	17830	16.83
6040	49.67	7290	41.15	11710	25.62	15130	19.83	17855	16.80
6050	49.59	7295	41.12	11715	25.61	15135	19.82	17890	16.77
6140	48.86	9530	31.48	11730	25.58	15155	19.80	21580	13.90

Lucknow (No. Reg. Sce) 10kW: 3205kc 93.60m – 4880kc 61.48m – 6170kc 48.62m. **Ranchi** (No. Reg. Sce) 2kW: 3268kc 91.80m. **Simla** (No. Reg. Sce) 2.5kW: 3223kc 93.09m – 6020kc 49.83m. **Bhopal** (No. Reg. Sce) 10kW: 3315kc 90.50m – 5990kc 50.08m. **Madras** (So. Reg. Sce) VUM: 4920kc 60.98m – 7160kc 41.90m. **Hyderabad** (So. Reg. Sce) 10kW: 3355kc 89.42m – 4990kc 60.12m – 6120kc 49.02m – 7140kc 42.02m. **Bombay:** (West Reg. Sce) VUB: 3295kc 91.05m – 4840kc 61.98m – 7120kc 42.13m. **Calcutta** (Ea. Reg. Sce) VUC: 3305kc 90.77m – 4820kc 62.24m – 6010kc 49.92m – 7210kc 41.61m. **Gauhati** (Ea. Reg. Sce) 10kW: 3235kc 92.74m – 3375kc 88.89m – 4775kc 62.84m – 4940kc 60.73m – 5970kc 50.25m – 6130kc 48.94m. **Kurseong** (Ea. Reg. Sce) 3355kc 89.42m – 4895kc 61.29m – 6100kc 49.18m.

HOME SERVICES

NORTH REG. SCE. (Hindi, Punjabi, English):
Delhi A: 3365kc: Morning up to 02.15+Night. **4960kc:** Morning after 02.30. **6190kc:** Afternoon+Evening – **Lucknow: 3205kc:** Morning up to 02.15+ Evening & Night. **4880kc:** After 02.30. **6170kc:** Afternoon – **Ranchi: 3268kc:** Evening+Night – **Simla: 3223kc:** Morning up to 03.30+Evening & Night. **6020kc:** Morning after 03.45 – **Bhopal: 3315kc:** Morning+Evening+Night. **5990kc:** Afternoon.
SOUTH REG. SCE. (Tamil, Telugu, Kannada, Malayalam, English):
Madras: 4920kc: Morning+Evening+Night. **7160kc:** Afternoon – **Hyderabad: 3355kc:** Morning up to 02.15. **4990kc:** Evening+Night. **6120kc:** Morning after 02.30+Evening. **7140kc:** Afternoon.
WEST REG. SCE. (Gujarati, Marathi, Kannada, Hindi, English):
Bombay A: 7120kc: Sun 04.15–06.30 – **Bombay B: 3295kc:** Morning up to 02.15. **4840kc:** 02.30–04.00, Evening & Night. **7120kc:** Afternoon
EAST REG. SCE. (Bengali, Oriya, Assamese, Hindi, English):
Calcutta B: 4820kc: Morning. **7210kc:** Afternoon. **6010kc:** Evening up to 12.40. **3305kc:** After 13.00+Night – **Gauhati A: 3375kc:** Morning up to 01.45+Evening & Night. **4940kc:** After 02.00. **5970kc:** Afternoon – **Gauhati B: 4775kc:** Morning+Evening. **6130kc:** After-

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noon. **3235kc**: Night – **Kurseong**: **4895kc**: Morning. **6100kc**: Afternoon. **3355kc**: Evening & Night.

HOME NEWS in English (on shortwaves):
01.10–01.15: On 3365, 3905, 4760, 6040, 7105, 7125, 11810kc (Delhi).
02.30–02.45: On 3905, 4760, 5990, 7105, 9730, 11710, 11895, 15310, 17830kc (Delhi), 3223 (Simla), 3315 (Bhopal), 4920 (Madras), 6120 (Hyderabad), 4940 (Gauhati), 3345 (Jammu), 3277kc (Srinagar).
08.00–08.10: On 6190, 7290, 9600, 9705, 11715, 11850, 15105, 17890kc (Delhi), 7160kc (Madras).
15.30–15.45: On 3295, 3925, 4760, 4962, 5995, 6140, 7265, 9615, 10335kc (Delhi), 3268 (Ranchi), 3223 (Simla), 3315 (Bhopal), 4920 (Madras), 4990 (Hyderabad), 3375 (Gauhati), 3345 (Jammu), 3277 (Srinagar), 3355kc (Kurseong).
17.00–17.05 (Sat 17.30–17.35): On 3365, 3925, 4760, 6140, 7265, 9615, 10335kc (Delhi).

ALL INDIA VARIETY PRGR. (Vividh Bharati): Short Wave Sce: 01.00–04.00 on 6035/6085kc, 05.30(Sun 04.45)–07.00 on 7240/7260kc, 08.30–09.30(Sun 10.00) on 7260/9600kc, 10.30–12.45 on 7240kc, 13.00–17.00(Sat 17.30) on 6085/9575kc.

FORCES PRGR. (Hindi/Gorkhali): 13.00–14.00 on 1070/3365/4760kc.

FOR NEFA: 11.15–11.30 on 11845/15135kc.

EXTERNAL SERVICES

GENERAL SERVICE (for Indians Overseas):

So. East Asia	L	kc	N.
23.15–00.15	Hindi	3905/5985/9530/11710	23.20–23.30
00.15–01.15	Tamil	5985/9530/11710	00.20–00.30
11.30–12.30	Tamil	11720	
Ea. Africa Mauritius			
03.45–04.15	Hindi	15130/17855	03.50–04.00
04.15–04.30	Gujarati	15130/17760/17855	04.15–04.30
04.30–04.40	English	15130/17855	04.30–04.40
15.45–15.15	Swahili	11840/15105	
16.15–17.15	Hindi	11840/15105	
17.45–18.30	Gujarati	7210/9655/11715	
18.30–18.40	Konkani	7210/9655/11715	
18.40–18.50	English	7210/9655/11715	18.40–18.50
Fiji Islands			
07.00–08.00	Hindi	15290/17705	
EASTERN SERVICE			
Nepal			
01.30–02.15	Nepali	4760/6050/7225	01.30–01.40
Burma			
00.40–01.15	Burmese	7225/9765	00.41–00.50
11.15–12.15	Burmese	11810/15105	11.16–11.25
Thailand			
11 40–12.00	Thai	17705/21580	11.45–11.55
China			
11.45–12.30	Cantonese	9665/7225	11.46–11.55
12.30–13.15	Kuoyu	9665/7225	12.31–12.40
North East Asia			
10.00–11.00	English	9560/11780/15105/17855	10.01–10.10
Australia, New Zealand			
10.00–11.00	English	15165/11710	10.01–10.10
Bhutan, Sikkim			
03.15–03.30	Tibetan	9705/7255	03.16–03.21
12.30–13.15	Tibetan	7290/9705	12.45–12.55
Indonesia			
22.45–23.00	Indonesian	5985/7260/9530	22.50–23.00
08.45–09.45	Indonesian	15290/17715	08.46–08.55
East Asia			
11.15–11.30	French	17705/21580	11.16–11.25
South East Asia			
00.30–00.40	English	7225/9765/11785	00.30–00.40
13.30–15.00	English	11810/15225	13.31–13.40
WESTERN SERVICE			
Afghanistan			
02.45–03.00	Pushtu	5990/7195	02.50–03.00
14.45–15.30	Pushtu	3905	14.50–15.00
Iran			
03.45–04.00	Persian	11715/15190	03.50–04.00
16.15–17.15	Persian	7135/5955	16.16–16.26
West Asia			
05.00–05.30	Arabic	15170/17705/11760	05.05–05.15
17.30–18.30	Arabic	3905/9915/7295	17.45–17.55
18.45–19.30	French	6010/9915/7295	18.50–19.00
U.K, West Europe			
19.45–20.45	English	7235/9915/11865	19.46–19.55
West Africa			
19.45–20.45	English	7125/9690/11740	19.45–19.55

Advertisement

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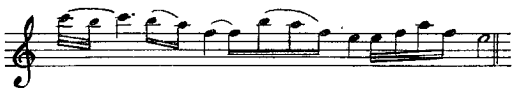
NEW DELHI (INDIA)

DA 63/6

There will be changes in frequencies from time to time and listeners are advised to listen to announcements which will cover all such changes.
ANN: Home Sce: "This is All India Radio". **External Sce:** "This is Delhi calling in the External Services of All India Radio".
INT-SIG: All India Radio's signature is a melody of eight second's duration repeated with intervals of 10 seconds in between. The Instruments used are violin, cello and tampura.



V. by QSL-card – **PUB:** "India Calling" free of charge – prgr. journal in English. Requests for free supply of copies may be made either to the Dir. of External Services of All India Radio, New Delhi or through the Indian Diplomatic Mission concerned.

RADIO KASHMIR

Srinagar A: 1120kc 267.9m – **Srinagar B:** 3277kc: Morning+Evening and Night. 6110kc: Afternoon – **Srinagar C:** 1490kc – **Jammu:** 990kc 303.0m: 02.00–03.30, 06.30–08.00, 13.00–17.30 – 3345kc: Morning up to 02.15. 4950kc: after 02.30, 5960kc: Afternoon. 3345kc: Evening.
The Marconi Company Ltd, G.B, delivered: 1 × 100kW tr. to Bombay, Delhi, Madras.
Brown Boveri, Switzerland, delivered: 20kW mw-tr's to Delhi, Madras, Vijyawada, Indore, Ajmer, Trichur, Patna; 50kW tr. (Trichy), 100kW tr. (Delhi).
Nippon Electric Co. Ltd, Japan, delivered 2 × 2kW sw-tr's. 20 × 1, 32 × 10, 1 × 50, 1 × 100kW mw-tr's.
Wilh. Franz KG, Germany: EMT studio equip.

INDONESIA

L.T: See Time Table – **Pr.L:** Indonesian.
RADIO REPUBLIK INDONESIA (Gov.)
ADDR: P.O. Box 157, Djakarta. **Te:** GBR 5771. **Cable:** RRI.
L.P: Dir. Gen: Sukirman. Vice Dir. Gen: P. Sutojo. Vice Dir. Gen. Tec. Sce's: Sunarjo.

HOME SERVICES

Call	kc	m	kW
Djakarta (Java Central Station)			
YDB	2460	121.95	1
YDD	3277	91.54	1
YDB2	4805	62.42	20
YDF	6045	49.63	100
YDB3	7270	41.27	7.5
YDE	11770	25.49	7.5
YDF3	11795	25.43	20
YDC	15150	19.80	7.5
Bandung (W. Java)			
YDA2	2420	123.96	0.25
YDA	3205	93.60	10
YDA3	4945	60.67	10
Djember (E. Java: relay)			
YDI6	2330	128.74	1
YDI6	3975	75.47	1
Medan (N. Sumatra)			
YDP2	3395	88.37	1
YDP4	5030	59.64	20
YDP3	7240	41.44	7.5
Sibolga (Sumatra: relay)			
YDM7	3241	92.56	1
–	4775	62.84	
Bandjarmasin (Kalimantan)			
YDO	3250	92.31	1
–	4820	62.24	
YDO2	5970	50.25	3
Pontianak (Kalimantan)			
–	2350	127.6	1
YDW2	3345	89.69	5
Samarinda (Kalimantan: relay)			
YDY	3295	91.00	1
Jogjakarta (C. Java)			
YDJ3	2350	127.6	1
YDJ	5047	59.43	7.5
YDJ2	7105	42.22	7.5
YDJ4	7255	41.35	20

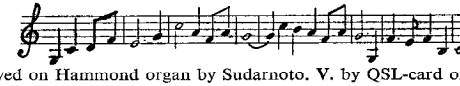
Call	kc	m	kW
Madiun (E. Java: relay)			
YDG6	3286	91.26	1
Semarang (C. Java)			
YDH2	3975	75.47	10
YDH3	7210	41.61	10
Surabaja (E. Java)			
YDI3	2370	126.6	1
YDI	3975	75.47	10
Surakarta (C. Java)			
YDG2	2440	122.9	1
YDG	3232	92.82	10
YDG3	4875	61.54	10
Tjirebon (W. Java)			
YDA6	2390	125.5	1
Padang (S. Sumatra)			
YDL	2480	120.90	1
YDL2	3960	75.76	10
–	6170	48.62	10
Palembang (S. Sumatra)			
YDK2	2430	123.50	1
YDK	4855	61.79	10
Bukittinggi (N. Sumatra)			
YDM2	3305	90.77	0.3
YDM3	4910	61.10	1
Banda Atjeh (N. Sumatra)			
YDN	2390	125.50	1
Pakanbaru (N. Sumatra)			
–	5955	50.39	5
–	7050	42.55	1
Makassar (Sulawesi)			
YDQ	2490	120.5	0.3
YDQ4	4750	63.16	7.5
YDQ3	7295	41.12	1.5
YDQ2	9550	31.41	7.5
YDQ2	11750	25.53	7.5

Call	kc	m	kW
Menado (Sulawesi)			
YDS2	5990	50.08	10
YDS	9550	31.41	1
Gorontalo (Sulawesi)			
YDS	4900	61.22	1
Denpassar (Bali)			
YDU2	3945	76.05	1
Ambon (Maluku)			
YDR3	3241	92.56	4
YDR	4865	61.66	10
YDR2	7140	42.02	1
Ternate (Maluku: relay)			
YDZ2	3915	76.64	1
Tdj. Pinang (Sumatra: relay)			
YDX2	4930	60.85	0.15
YDX3	6980	42.98	1
Kupang (Nusa Tenggara)			
YDV	3259	92.05	5
YDV	7165	41.87	–
Mataram (Nusa Tenggara)			
YDV5	3223	93.09	1
Singaradja (Nusa Tenggara)			
YDU7	2420	123.9	0.25
Sumenep (Madura)			
YDI20	3355	89.41	1
Purwokerto			
–	2485	120.7	
–	3395	88.37	0.15
–	3448	87.00	0.3

Call	kc	m	kW
Djambi			
YDK6	2490	120.5	1
YDK7	3375	88.89	1
Palankaraya			
YDZ7	3325	90.23	
Sukarnopura (West Irian)			
–	3365	89.15	0.5
–	6070	49.42	5
–	7190	41.72	10
–	9745	30.78	5
Biak (West Irian)			
–	2420	124.0	1
–	3325	90.23	1
–	7230	41.49	1
Manokwari (West Irian)			
–	2350	127.6	0.15
–	3385	88.63	0.3
Sorong (West Irian)			
–	3335	89.95	1
–	3395	88.37	1
–	4872	61.58	1
Fak-Fak (West Irian)			
–	2490	120.5	0.5
Merauke (West Irian)			
–	3260	92.02	0.15
–	3985	75.28	0.15
–	15110	19.85	5

National Prgr. (Djakarta): 22.30(Sun 23.30)–07.30, 09.30–16.30 on 6045/7270/11770/15150kc.
N: W 22.30, 23.30, 04.30, 05.30, 11.30, 12.30, 14.30. Sun 23.30, 00.30, 04.30, 05.30, 11.30, 12.30, 14.30 – **L.L. English:** Mon 10.30 (English for you), Wed 10.30, Thurs 12.30 (The road to English), Sat 12.30 (Listen and Teach). **French:** Mon 12.30, Thurs 10.30. **German:** Tues 12.30, Fri 10.30. **Russian:** Tues 10.30, Fri 12.30.
Local Prgr. (Djakarta): 09.30–11.30 on 2460kc.
Third Prgr. (Djakarta): 22.28–23.30 (Sun 23.28–02.30) on 3277/4805kc, 09.30–15.30 on 3277/4805kc.

ANN: Nat. Prgr: Indonesian: "Inilah R. Republik Indonesia di... (name of the station)".
INT-SIG: Nat. Prgr:



played on Hammond organ by Sudarnoto. **V.** by QSL-card or letter.

FOREIGN SERVICE (from Djakarta)

Call	kc	m	kW	Call	kc	m	kW
YDB3	7270	41.27	7.5	YDF2	11715	25.61	100
YDF8	9585	31.30	50	YDF2	11785	25.46	100
YDF6	9865	30.40	50	YDF3	11795	25.43	20

English: 11.00–12.00(Au, NZ) on 9865/11715kc, 14.30–15.30(So.Ea. As, India, We, No.Am) on 9865/11715kc, 19.00–20.00(Eu, NZ) on 9865/11715kc – **French:** 17.00–18.00(Eu, ME, Af) on 9865/11715kc – **Indonesian:** 18.00–19.00(Eu, ME) on 9865/11715kc, 01.00–02.00(Am, So.Ea.As) on 9585/11795kc – **Chinese:** 12.00–13.00(So.Ea.Asia) on 9865/11715kc – **Arabic:** 13.00–14.00(So.Ea.Asia) on 9865/11715kc, 16.15–16.30(ME) on 9865/11715kc – **Hindi:** 15.30–16.00(So.Asia, Af) on 9865/11715kc – **Urdu:** 14.00–14.30 on 9865/11715kc.
Note: This schedule is changed every 3 months according to tentative high freq. broadc. sched.
English: N: 11.15, 14.45, 19.15 – **French: N:** 17.41 – **Indonesian: N:** 18.15, 18.55, 01.15, 01.55.
ANN: E: "This is the Voice of Indonesia broadcasting from Djakarta". F: "Ici Djakarta, la voix de l'Indonésie".
INT-SIG: Some instrumental music in accordance with the genre of the next prgr – **V.** by QSL-card or letter. Listeners rep.s are welcome.
PUB: Weekly: "Mingguan Radio" (home prgr) – Monthly: "Voice of Indonesia" (Foreign broadc. in Indonesian, Hindi, Urdu, Chinese, Arabic, English, French, Dutch). Write to "Voice of Indonesia", RRI, P.O. Box 157, Djakarta.
Nippon Electric Co, Japan, delivered to Djakarta: 1 × 10kW, tr's, studio and remote pick-up equip.

No place is too far away for the WRTH
That's why you sales message will have a guaranteed world-wide coverage of radio and TV stations in **all** countries.

MINISTRY OF INFORMATION

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Information Service:

Provides assistance and guidance to all foreign correspondents and news agency representatives visiting Iran, including interviews with personalities and visit to historical and developed sites also prepares and distributes publications, documentary films, slides and photographs on Iran. Tel. 51161-4.

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Conducts news in Persian, English, French, Russian and Turkish and local regional languages, and musical programme exchange with their description in foreign languages.

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MINISTRY OF INFORMATION

Meidan Ark, Tehran, Iran – Tel. 51161-4

IRAN

L.T: GMT+3½ h – Pr.L: Persian.

MINISTRY OF INFORMATION (Gov.)

FI: By Gov – AD: Allowed, income goes straight to the Treasury. 4 times daily (resp. 2, 2, 2, 15 mins) – ADDR: Ministry of Information, Meydan Ark, Tehran. Te: 51161. Cable: "Varatel". Telex: 2077 – L.P: Minister of Inf. & Dir. Gen: H. E. Gen. Pakravan. Gen. Mgr. & Chief Eng: M. R. Atefi.

STATIONS:

kc	m	kW	kc	m	kW	kc	m	kW
895	335.2	50	7125	42.11	100	15110	19.85	100
1325	226.5	100/1	7135	42.05	100	FM: 98Mc 0.5kW		
3780	79.37	100	11730	25.58	100			

HOME SCE. (R. Iran):
21.30–02.30 on 895/3780kc, 02.30–16.30 on 1325/3780/7125kc (also on 11730/15135kc to Europe from 08.20), 16.30–17.30 on 1325/3780/7125/7135/11730kc. All prgr's also on FM – N. in Persian: 21.30, 22.30, 23.30, 00.30, 01.30, 02.30, 03.30, 04.30, 05.30, 06.30, 08.20, 09.30, 10.30, 12.30, 13.30, 14.30, 15.30, 16.30, 17.30, 19.30, 20.30.

FOREIGN SCE. to Europe: 17.30–21.30 on 7135/11730kc.
17.30 Russian, 18.00 Turkish, 18.30 Arabic, 19.30 French, 20.00 English, 20.30–21.30 special prgr. for Iranians abroad.

REGIONAL STATIONS:

R. TABRIZ: On 650/6155kc (7.5/5kW): 02.55–05.00, 08.00–11.00, 13.25–18.00. Armenian 18.00–18.30.

R. REZAIEH: On 976/6940kc (0.5kW): 07.30–09.00, 11.50–17.30. Kurdish 13.30–14.00. Armenian 14.00–14.30. Assirian 14.30–15.00. Turkish 15.30–16.00.

R. ISFAHAN: On 1425/7888kc (1/0.4kW): 06.25–09.00, 11.45–17.30.

R. ZAHEDAN: On 777kc (100kW): 07.30–09.00, 12.55–19.30. Baluchi 14.00–15,00. Urdu 15.00–16.00.

R. SANANDAJ: On 1475/6818kc (1/0.4kW): 02.45–04.30, 11.15–17.30.

R. KERMANSHAH: On 985kc (100kW): 06.30–09.00, 11.00–18.30 – Kurdish 15.45–18.30.

R. GORGAN: On 1462/6520kc (1/0.4kW): 12.15–17.30. Turkuman 16.00–17.30.

R. SHIRAZ: On 1060/4500kc (1/0.4kW): 06.25–08.30, 12.25–18.30.

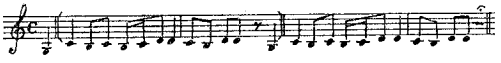
R. RASHT: On 680kc (1kW): 06.15–09.30, 12.45–17.30.

R. KERMAN: On 1090kc (1kW): 06.15–08.30, 12.45–16.30.

R. MASHAD: On 1100kc (1kW): 07.20–08.30, 13.00–17.00.

R. AHWAZ: On 1390kc (100kW): 12.30–20.30. Arabic 14.30–20.30.

ANN: E: "This is Tehran, R. Iran". F: "Ici Teheran, R. Iran". Turkish: "Burasi Tahran, Iran Radyosu". Russian: "Govorit Tegeran, R. Iran". Persian: "Inja Tehran ast, R. Iran." Urdu: "R. Iran-Zahedan". Kurdish: "Dani Irana, Bashi Kurdi". Arabic: "Huna al Ahwaz, Der'el Isa'a al Iraniya", Baluchi: "Ada Zahedan, R. Iran." Armenian: "Tavrizne Khosoum". Assirian: "Lakha Rezaieh, R. Azerbayjan Ma'arveta" – INT-SIG: Iranian Melody played on Tar (Iranian string instrument). Beginning of the "Mahour" one of the seven sets of Iranian Music).



V. by letter. Rp. Recordings accepted – PUB: "Iran today" (Quarterly magazine) in E, F, G. "Facts about Iran" (weekly bulletin) in E, F, Arabic – F.PL: New Gov Radio & TV st.
Nippon Electric Company, Ltd, 2×100kW mw-tr's – Telefunken AG, 2×100kW sw'tr's – The Marconi Company, Ltd, 660W tr.
Wilh. Franz KG, Germany: EMT studio equip.

IRAQ

L.T: GMT+3 h – Pr.L: Arabic, Kurdish, Turkuman.

BROADCASTING STATION OF THE REPUBLIC OF IRAQ (Gov.)

ADDR: Directorate Gen. of Broadc. and Television, Salihiya, Baghdad. Te: 31101. Cable: Broadcasts. – L.P: Dir. Gen: A. Latif Al-Kamali. Dir. Tec: U. M. Ali.

STATIONS:

kc	m	kW	kc	m	kW	kc	m	kW
764	392.6	150/300	3240	92.59	50	6155	48.74	50
908	330.0	200	3990	75.19	50	7180	41.78	100
1350	222.2	20	6030	49.75	100	9555	31.40	50
			6095	49.22	100	9635	31.14	50

HOME SCE: Arabic: 02.30–05.30 on 908/6155/7180kc, 05.30–07.00 on 908/6155kc, 10.00–22.00 on 908/764/3990/6155/7180/9555kc, 22.00–22.15 on 908/3990/7180/9555kc.
N: 03.00, 05.00, 11.00, 15.00, 16.00, 17.00, 19.00, 22.00, also at 18.30, 21.00 on 764/3990kc.
Kurdish, Turkuman: 02.30–05.30 on 1350/3240/6030kc, 05.30–07.00 on 1350/3240kc, 10.00–18.30 on 1350/3240/6030kc.

FOREIGN SCE:
Urdu 18.30–19.00 on 6030/9635kc, Persian 19.00–19.45 on 3240/6030kc, Turkish 19.45–20.30 on 3240/6030kc, **French** 20.30–21.00, **English** 21.00–21.40, **German** 21.40–22.10 on 6030/6059kc.
ANN: "Itha'at Al-Jemhoriya Al-Iraqiya Fi Baghdad" (The Broadcasting Service of the Iraqi Republic in Baghdad) – **INT-SIG:** Soft chirps of a mechanical nightingale – V. by QSL-card. Re. to Chief Eng. Recordings accepted.
Brown Boveri, Switzerland delivered 2 sw-tr's 250kW.
The Marconi Company Ltd, G.B. delivered one 20kW, four 100kW tr's.

ISRAEL

L.T: GMT+2 h – **Pr.L:** Hebrew, Arabic.
ISRAEL BROADCASTING AUTHORITY (Gov.)
FI: By state, license payments, adv – **AD:** 5 min of prgr. per h.
ADDR: Kol Yisrael, Israel Broadc. Sce, Broadc. House, Jerusalem. **Cable:** Kolyisrael. **Te:** 28161 – **L.P:** Dir. Gen: H. Givton. Dept. Dir: (Planning) Dr. Y. Spiro. Dept. Dir (Adm): M. Tchetchik. Dir. Prgr: Mrs. L. Porath. Dir. N & Current Events: A. Gordon. Dir. Overseas Broadc: G. Wigoder. Dir. Arabic Prgr: Y. Hazma. Dir. Operations: N. Rogel. Head Foreign Relations: Mrs. R. Smilan. Public Relations: Mrs. Y. Doron. Dir. Tec: M. Berman – Ministry of Posts.

STATIONS: Medium Waves:

kc	m	kW	Call	Prgr.	kc	m	kW	Call	Prgr.
575	522	50/10	4XB36	A	1025	292	0.5	4XB48	B
656	457	100	4XB47	B	1097	273.5	1	4XB43	A
710	422.5	1	4XB20	B	1169	256.6	1	4XB23	A
737	407	100/200	4XB34	D	1205	249	10	4XB35	A
845	355	1			1358	220	0.5	4XB53	A

Short Waves:

kc	m	kW	Call	Prgr.	kc	m	kW	Call	Prgr.
9009	33.30	50/7.5	4XB31	C	7189	41.73	20	4XB49	D
9725	30.85	100	4XB51	E	9625	31.17	100	–	C
					11910	25.19	100	–	C

HOME SERVICE:
Main Prgr. in Hebrew (Prgr. A) on 575/1169/1205/1358/845/881kc 04.00–06.00, 09.30–12.00, 15.00–21.00 – **N:** 04.00, 05.00, 06.00, 11.30, 15.00, 17.00, 18.30, 21.00.
Prgr. in Hebrew, Yiddish, Ladino, French, English, Rumanian, Hungarian on 656/710/1097kc: 06.00–09.30, 11.30–12.30, 14.00–21.00.

Advertisement

KOL YISRAEL

The Israel Broadcasting Authority broadcasts daily to listeners in other countries.

Arabic:

medium wave:
407 m – 737 kc
292 m – 1025 kc } 04.30 – 05.15 GMT
short wave:
42 m – 7189 kc } 11.15 – 12.15 GMT, 15.30 – 21.15 GMT

English, French, Persian, Yiddish etc.

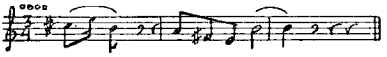
short wave:
30.8 m – 9725 kc
31.2 m – 9625 kc
33.3 m – 9009 kc } 16.00 – 21.00 GMT

English & French programmes also on Sunday mornings 09.00–11.00 GMT on 25.2+33.3 m & 11910+9009 kc.

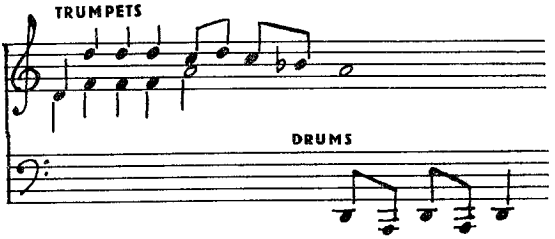
English and French broadcasts daily on Israel's home service on:
273 m – 1097 kc
457 m – 656 kc } 11.30 – 12.30 GMT, 18.30 – 19.00 GMT

For full details and schedules write to: Kol Yisrael, Jerusalem, Israel.

N: English: 12.00, 18.45. **French:** 11.30, 18.30 – **Light Prgr. with comm:** 06.00–09.30, 14.00–18.30, 19.00–21.00 – **Arabic Prgr:** D on 737/1025/7189kc: 04.30–05.15, 11.15–12.15, 15.30–21.15.
ANN: Home Sce: "Kolyisrael Miyerushalayim". **INT-SIG:** Traditional Bible constellation played on obo strings.



FOREIGN SCE. on 9009/9625kc (prgr. C)
9009kc (omnidirectional); 9625kc: 16.00–20.00 to Europe, 20.15–21.00 to So. Africa, 21.15–22.15 (Sun only) to No. Atlantic. 9725kc: 16.00–20.00, 20.15–21.00 (experimental).
Yiddish 16.00–16.30, Persian 16.30–17.00, Ladino 17.35–17.50*, Rumanian 17.50–18.05*, Hungarian 18.05–18.15*, Moghrabit 18.15–18.30*, Yiddish 18.30–19.00*, Hebrew 19.00–19.30*, **French** 20.15–20.40, **English** 20.40–21.00; Sun 21.15–22.15 for Seamen (in Hebrew).
N: at the beginning of each prgr. and 16.20, 18.50 (Yiddish).
*=Rel. Prgr. "B".
Additional Sun prgr's: 09.00–11.00 on 9009/11910kc. **French:** 09.00, **English:** 10.00.
ANN: E: "This is Israel calling, you are tuned to Kol Zion"; F: "Ici Kol Yisrael, R. dif. Isralienne"; Hungarian: "Kol Yisrael, itt az Israeli Rádio"; Persian: "Inja Yerushalim, sedail Israel"; Rumanian: "Kol Yisrael, emisiunea in limba romina"; Yiddish: "Do iz Kol Yisrael, oiditsiye Kol Tsion" (Home Sce.) "Do is Kol Tsion, shalom fun Yerushalayim" (For. Sce.) – V. by QSL-card. **INT-SIG:** Hatiqva (Nat. Hymn).



JAPAN

L.T: GMT+9 h – **Pr.L:** Japanese.
NIPPON HOSO KYOKAI (NHK).
(Public Corporation, non-Gov, non-comm.)
(The Japan Broadcasting Corporation).
FI: In accordance with the Broadcast Law. NHK's operations are financed by the revenue from rcvr's fee.
ADDR: No. 2, 2-chome, Uchisaiwai-cho, Chiyoda-ku, Tokyo. **Cable:** "RADIONHK". **Te:** (501) 4111.
L.P: Chmn. (Board of Governers): Y. Chiba. Pres: Y. Maeda. Vice Pres: K. Ono. Chief Eng: F. Mikuma. Gen. Man. Dir's: F. Mikuma, M. Akagi, I. Matsui, T. Nomura, H. Asanuma. Man. Dir's: K. Kawakami, N. Nagahama, T. Nagasawa, H. Sano. Auditor's: S. Monden, H. Sho, I. Nakayama. Dir's: Secr: H. Okada. Policy Planning Bureau: K. Kawakami. Man. Inf. Sce. Bureau: H. Matsuura. Public Rel. Board: T. Iida. Legal Affairs Board: I. Nihira. Audit Board: T. Matsunaga. Prgr. Inspection Board: F. Egami. Gen. Broadc. Adm: H. Asanuma. Educ. Dept: T. Yoshida. News Dept: K. Ogawa. N Commentators Room: G. Fujise. Entertainm. Dept: T. Sakamoto. Tech. Operations Dept: K. Fujishima. Prgr. Service Dept: K. Fujinei. Gen. Affairs Dept. Broadc. Center: M. Michizu. Overseas Broadc. Dept: H. Akashi. Audience Services Dept: T. Nagasawa. Eng. Dept: Y. Sawamura. Facilities Constr. Dept: N. Yoshida. Staff Adm. Dept: Y. Yoshida. Finance Dept: T. Takeda. Gen. Affairs Dept: K. Hori. Radio & TV Cult. Research Inst: Y. Kumagai. Public Opinion Research Inst: M. Tateno. Tech. Research Lab: A. Yamashita. Broadc. Science Research Lab: Y. Makita. C. Training Inst: N. Shimazaki.
STATIONS: Medium Waves: The medium wave (535–1605kc) tr's are used for domestic radio sce. in the 1st and 2nd net, both extensive enough to place the entire country under coverage.
Number of stations (as of Oct. 1, 1965): 1st Network: 168 – 2nd Network 127.
[1]=1st net. [2]=2nd net.

Call	kc	kW	Call	kc	kW	Call	kc	kW	Call	kc	kW
°Sapporo			Asahikawa			Nayoro			Obihiro		
[1]IK	570	100	[1]CG	620	3	[1]CY	600	1	[1]OG	660	5
[2]IB	750	100	[2]CC	1470	1	[2]AZ	1320	1	[2]OC	1080	1
Hakodate			Wakkanai			Enbetsu			Kushiro		
[1]VK	680	5	[1]IQ	980	1	[1] –	790	1	[1]PG	640	10
[2]VB	1470	1	[2]IY	1470	0.5	[2] –	1600	1	[2]PC	1070	10

PUBLIC BROADCAST IN THE PUBLIC INTEREST

NHK is Japan's only non-commercial, non-governmental public broadcasting corporation.

NHK NETWORKS (As of Oct. 1965)

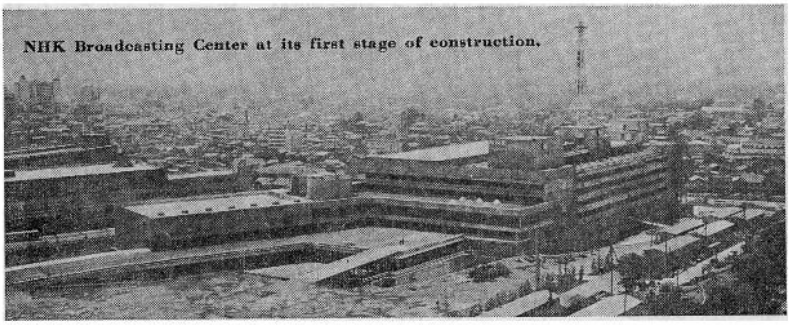
Domestic Radio	**1st Network**	**168 Stations**	**Coverage**	**99.7%**
	2nd 〃	**127 〃**		**98.2**
	F M 〃	**50 〃**		**80.0**
Television	**General 〃**	**296 (Color 216)**		**90.0**
	Educational 〃	**288 (Color 105)**		**89.0**

Overseas Broadcasting (RADIO JAPAN)

General Service : Every hour on the hour in English and Japanese

Regional Service: 18 Transmissions in 23 languages (Daily)

Serving 18 million households for Television and 20 million households for radio



NHK Broadcasting Center at its first stage of construction.

NHK

Call	kc	kW
Kitami		
[1]KP	1150	10
[2]KD	1370	10
Muroran		
[1]IU	780	3
[2]IT	1080	1
°**Sendai**		
[1]HK	890	10
[2]HB	1090	10
Akita		
[1]UK	760	10
[2]UB	1590	10
Yamagata		
[1]JG	540	5
[2]JC	1470	1
Tsuruoka		
[1]JP	1440	1
[2]JD	1080	1
Morioka		
[1]QG	650	10
[2]QC	1220	10
Koriyama		
[1]CP	620	1
[2]CD	1510	1
Aomori		
[1]TG	960	5
[2]TC	1320	1
Hachinohe		
[1]TQ	1300	1
[2]TZ	1510	1
***Tokyo**		
[1]AK	590	100
[2]AB	690	300
Kofu		
[1]KG	980	5
[2]KC	1470	1
Nagano		
[1]NK	620	1
[2]NB	1320	1

Call	kc	kW
Matsumoto		
[1]SG	540	1
[2]SC	1510	1
Iida		
[1]SQ	620	1
[2]SZ	1320	0.5
Niigata		
[1]QK	840	10
[2]QB	1190	10
Takada		
[1]QX	790	1
[2]QV	1360	0.1
°**Nagoya**		
[1]CK	730	10
[2]CB	910	10
Takayama		
[1]CQ	790	1
[2]CZ	1470	1
Shizuoka		
[1]PK	880	10
[2]PB	1500	10
Hamamatsu		
[1]DG	580	1
[2]DC	1520	1
Kanazawa		
[1]JK	1170	10
[2]JB	1390	10
Nanao		
[1]JU	540	1
[2]JV	1470	0.1
Fukui		
[1]FG	980	5
[2]FC	1520	1
Toyama		
[1]IG	580	5
[2]IC	1520	1
°**Osaka**		
[1]BK	670	100
[2]BB	830	100

Call	kc	kW
Hikone		
[1]BS	780	1
Kyoto		
[1]OK	1300	1
[2]OB	1510	1
°**Hiroshima**		
[1]FK	770	10
[2]FB	1070	10
Onomichi		
[1]DP	1000	1
[2]DD	1470	1
Okayama		
[1]KK	600	5
[2]KB	1600	5
Matsue		
[1]TK	850	10
[2]TB	1490	10
Tottori		
[1]LG	1300	1
[2]LC	1470	1
Yonago		
[1]LQ	780	1
[2]LU	1520	1
Yamaguchi		
[1]UG	680	5
[2]UC	820	5
Hagi		
[1]UQ	960	1
[2]UZ	1600	0.5
°**Matsuyama**		
[1]ZK	960	5
[2]ZB	1510	5
Uwaijima		
[1]ZU	1440	1
[2]ZY	1600	1
Kochi		
[1]RK	990	10
[2]RB	1370	10
Nakamura		
[1]RQ	1000	1
[2]RY	1520	0.5

Call	kc	kW
Tokushima		
[1]XK	780	5
[2]XB	1520	1
Takamatsu		
[1]HP	1300	5
[2]HD	1080	1
°**Kumanamoto**		
[1]GK	930	10
[2]GB	1590	10
Hitoyoshi		
[1]GQ	1240	1
[2]GV	1600	1
Fukuoka		
[1]LK	610	100
[2]LB	870	100
Kitakyushu		
[1]SK	540	1
[2]SB	1600	1
Nagasaki		
[1]AG	660	5
[2]AC	1080	1
Kagoshima		
[1]HG	700	10
[2]HC	1220	10
Naze		
[1]HI	580	1
[2]HV	1320	1
Miyazaki		
[1]MG	540	1
[2]MC	1470	1
Nobeoka		
[1]MT	620	1
[2]MX	1320	1
Oita		
[1]IP	790	1
[2]ID	1470	1
Saga		
[1]SP	960	1
[2]SD	1320	1

+173 st's less 1kW not mentioned.
* = Headquarters ° = Reg. Central St.

HOME SERVICE

1st NET: D 20.00–15.00 – **N: W:** Every h and 00.30, 01.30, 02.30, 05.30(not Sat), 06.30, 07.30(not Sat), 08.40(not Sat), 14.55. **Sun:** Every h and 14.55 exc. 01.00, 02.00, 04.00, 05.00, 09.00, 11.00 – **Wrp:** W 20.30, 20.57, 21.13, 21.59, 22.15, 22.59, 23.59, 00.59, 01.59, 02.55, 03.13, 03.59, 04.59, 05.59, 06.08, 06.59, 07.59, 08.08, 08.59, 09.50, 10.15, 11.58, 12.08, 12.59, 13.08, 13.59. **Sun:** as on W exc. 05.59, 07.59, 11.00 – **Mbg:** W 21.50 – **T.S:** Every h.

2nd NET: D 20.30–15.00 – **English N:** W 09.55 – **L.L: Fundamental Course of English:** W 21.05–21.25, 09.20–09.40. **English Conversation:** W 21.25–21.40, 09.40–09.55. **German:** 14.00–14.15. **French:** 14.15–14.30 – **Wrp:** 00.15–00.30, 07.00–07.15 – **School Broadc:** W 00.00–03.35, 04.00–04.15(not Sat).

The two net's together are on the air for a grand total of 37.5 hrs daily – *classified by broadc. h (%); 1st Net: N 37.8, Educ. 7.3, Culture 27.5, Entertainment 27.4. 2nd Net: N 10, Educ. 55, Culture 32.1, Entertainment 2.9.

FM STATIONS:

	Mc	kW		Mc	kW		Mc	kW
Sapporo	85.2	3	Tokyo	82.5	10	Yamaguchi	85.3	0.25
Hakodate	87.0	0.25	Kofu	85.6	1	Matsuyama	87.7	1
Asahikawa	85.8	0.5	Nagano	84.0	0.5	Niihama	87.0	0.1
Obihiro	87.5	0.25	Iida	81.3	0.1	Kochi	87.5	0.5
Kushiro	88.5	0.25	Niigata	82.3	1	Tokushima	83.4	0.25
Kitami	86.0	0.25	Nagoya	82.5	3	Takamatsu	86.0	1
Muroran	88.0	0.25	Shizuoka	88.8	0.5	Kumamoto	85.4	1
Sendai	82.5	3	Hamamatsu	82.1	0.25	Fukuoka	84.8	1
Akita	86.7	1	Kanazawa	82.2	1	Kitakyushu	85.7	0.25
Yamagata	82.1	1	Fukui	83.4	1	Nagasaki	84.5	0.25
Tsuruoka	86.0	0.25	Toyama	81.5	1	Sasebo	86.0	0.25
Morioka	83.1	1	Osaka	88.1	10	Kagoshima	85.6	1
Fukushima	85.3	1	Hiroshima	88.3	1	Miyazaki	86.2	0.25
Wakamatsu	85.9	0.25	Onomichi	84.8	0.25	Nobeoka	87.0	0.1
Taira	86.1	0.1	Okayama	88.7	1	Oita	88.9	1
Aomori	86.0	1	Matsue	84.5	0.5	Saga	81.6	0.25
Hachinohe	81.8	0.1	Tottori	85.8	0.25			

D 21.00–15.00 (Monophonic & Stereophonic broadc. in Pilottone system).

RELAYS OF HOME SERVICE PRGR'S ON SHORTWAVES:

1st Prgr: 7230kc 41.49m 5kW: 20.00–22.15, 08.00–10.00; 9655kc 31.07m 5kW: 22.25–07.45.

2nd Prgr: 7285kc 41.18m 5kW: 20.30–10.00;

FOREIGN SERVICE (R. Japan

I=So. Asian Sce, II=Mid. East & No. Africa Sce., III=African Sce., IV=No. American Sce., V=No. & Latin American Sce., VI=Hawaiian Sce., VII=European Sce., VIII=Latin American Sce., IX=Australia & N. Z. Sce., X=Asian Continent Sce., XI=Korean Sce., XII=East Asian Sce., XIII=Philippine & Indonesian Sce., XIV=Southeast Asian Sce.

Languages: a) Hindi, English Urdu, Bengali–b) Arabic, French, English–c) Russian, German, French, Italian, English, Swedish–d) English, Swahili, French–e) English, Japanese–f) Spanish, Japanese, English–g) Japanese, Portuguese, Spanish–h) Korean–i) Chinese, Russian–k) Japanese–l) English, Malay, Indonesian–m) Chinese, French, Vietnamese, English, Thai–n) English.

STATIONS: 20/50/100/200kW.

kc	m	kc	m	kc	m	kc	m
6080	49.34	9740	30.80	15105	19.86	15425	19.45
6140	48.86	9765	30.72	15115	19.85	17725	16.93
7195	41.70	11705	25.63	15135	19.82	17755	16.90
9505	31.56	11725	25.59	15175	19.77	17785	16.87
9525	31.50	11780	25.47	15195	19.74	17795	16.86
9530	31.48	11800	25.42	15225	19.70	17825	16.83
9580	31.32	11815	25.39	15235	19.69	17855	16.80
9605	31.23	11855	25.31	15285	19.63	17870	16.79
9675	31.01	11865	25.28	15310	19.60	17875	16.78
9695	30.94	11875	25.26	15325	19.58	17895	16.76
9705	30.91	11940	25.13	15390	19.49		

Times	Sce.	kc	L	Times	Sce.	kc	L
15.00–16.30	I	7195, 9525		09.30–10.30	IX	11875, 15235	n
		9705	a	10.45–12.15	X	9525, 9675	
16.45–18.45	II	7195, 9525	b			11705	i
19.00–20.00	III	7195, 9525	d	11.00–12.00	XI	6080, 6140	
00.00–01.00	IV	11780, 15135	n			7195	h
02.00–04.00	V	9525, 11780	f	12.15–14.45	XII	6080, 7195	
05.30–07.00	VI	11705, 15235	e			9705	k
06.15–08.45	VII	11780, 15135	c	12.30–14.30	XIII	9525, 11780	
09.00–10.30	VIII	9530, 9765				11940	l
		11705	g	13.00–16.00	XIV	9675, 11705	
						11875	m

General Sce. in English, Japanese: 01.00 on 15105/15310/15425kc; 02.00, 03.00, 04.00 on 11705/15195/15310kc; 05.00, 06.00, 07.00, 08.00, 09.00, 10.00, 11.00 on 9505/11815/15310kc; 12.00, 13.00, 14.00, 15.00, 16.00, 17.00, 18.00, 19.00 on 9505/9605/9740kc; 20.00 on 9605/9740/15195kc; 21.00, 22.00 on 6140/9605/15195kc; 23.00, 00.00 on 6140/15105/15425kc.

NEWS: English: 15.25 (I), 17.25 (II), 19.00 (III), 00.00 (IV), 03.00 (V), 05.30 (VI), 08.00 (VII), 09.30 (IX), 12.30 (XIII), 15.10 (XIV) and in Gen. Sce. at the beginning of each tr – **French:** 18.10 (II), 19.40 (III), 07.25 (VII), 14.15 (XIV) – **German:** 06.50 (VII) – **Italian:** 07.40(Mon) (VII) – **Portuguese:** 09.30 (VIII) – **Spanish:** 02.00 (V), 10.00 (VIII) – **Swedish:** 08.30 Sun, Wed (VII) – **Russian:** 11.40 (X), 06.15 (VII) –

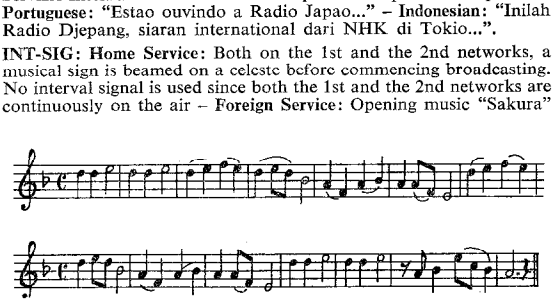
LISTENERS CORNER (English): Sat 00.45 (IV), 10.15 (IX), 15.45 (I), 17.55 (II), 19.25 (III). Sun 08.15 (VII), 13.00 (XIII), 15.45 (XIV) –

SCANDINAVIAN HOUR (Swedish): Sun, Wed 08.30–08.45.

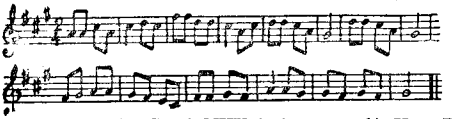
ANN: Home Service: The call sign and the station name are announced at the commencement and end of each transmission. At intervals between programmes an announcement, "NHK" is made at the end of the news prgr's of both 1st network and of FM network. It also comes before the call sign of 2nd network.

Foreign Service: English: "This is Radio Japan, the overseas broadcasting service of NHK. We are broadcasting to...("target area")" – **French:** "Ici Radio Japon...(target area)" – **German:** "Hier ist Tokyo, der japanische Rundfunk...(target area)" – **Italian:** "Buon giorno, sign. radioascoltatori Italiani. Qui Radio Giappone – Reparto Servizio Internazionale di NHK..." – **Spanish:** "Aqui Radio Japon..." – **Portuguese:** "Estao ouvindo a Radio Japao..." – **Indonesian:** "Inilah Radio Djepang, siaran international dari NHK di Tokio...".

INT-SIG: Home Service: Both on the 1st and the 2nd networks, a musical sign is beamed on a celeste before commencing broadcasting. No interval signal is used since both the 1st and the 2nd networks are continuously on the air – **Foreign Service:** Opening music "Sakura"



Interval signal music "Kazoe Uta"



PUB: In Japanese only: Graph NHK (twice a month), Hoso Bunka or Broadcast Culture (monthly), NHK Year Book (annual). In English and others: NHK Handbook (annual in E), *NHK Today and Tomorrow (monthly in E, F, Sp), *Radio Japan News (monthly in E, J, Sp and others), *This is NHK (annual in E), *Educational Broadcasts of NHK (annual in E), *Broadcasting Engineering of NHK (annual in E), *Radio & TV Program Schedules (annual in E), *NHK Technical Monograph (irr. in E), *NHK Laboratories Note (annual in E), *The prgr schedules for Overseas Service (R. Japan), Studies of Broadcasting (annual in E).

*=distributed upon request. No return postage required – V. by QSL-card and by letter.

F.PL: Number of FM st's will be 153 by the end of 1967. All total of NHK's radio and TV-st's at the end of 1967 will be 1386.

Nippon Electric Co: 1×150kW, 2×100kW, 9×10kW, 2×5kWs 1×1kW+13 low power mw-tr's and various studio equip. to 28 st', of NHK, 50kW sw-tr. (Nazaki).

PRIVATELY OWNED COMMERCIAL BROADCASTING STATIONS

THE NATIONAL ASSOCIATION OF COMMERCIAL BROADCASTERS IN JAPAN

ADDR: 7-2 Ginza-Nishi, Chuo-ku, Tokyo. **Te:** 571-9936. **Cable:** Kyobashi Mimporen – **L.P:** Board of Dir's: Pres: T. Adachi, Vice-Pres: Y. Akao, F. Rokuro. Executive Dir: S. Sakai. Dir's: K. Muroya, C. Kanno, G. Kurata, K. Shikakura, Y. Shimizu, U. Suzuki, K. Koshida, E. Horiuchi, R. Yokoyama, G. Kojima, J. Watanabe, S. Takahashi, T. Hirai, M. Tatsumi, T. Tsukifuji, Y. Yamanaka, H. Kaneko. Auditors: O. Tsubota, Y. Kuroki. Councilor: K. Kuga, Secr. Gen: Y. Isomura, S. Sadagasaki.

Medium Waves: Call: JO--.

	Call	kc	kW		Call	kc	kW		Call	kc	kW
1)	CR	560	10	12)	NF	1100	1	34)	LF	1310	50
2)	DF	720	5	19)	WO	1100	1	35)	SF	1330	10
3)	IL	720	1	20)	GF	1100	1	36)	ER	1350	10
4)	JF	740	5	21)	BW	1110	1	37)	UF	1380	20
5)	LR	740	5	22)	MR	1110	5	38)	VR	1400	5
6)	SO	860	1	23)	CF	1110	5	7)	QL	1400	5
7)	HE	860	3	24)	AF	1120	5	3)	IF	1410	10
8)	PR	860	5	25)	DR	1120	5	39)	YR	1420	5
7)	QF	860	3	26)	QR	1130	50	7)	TL	1420	1
9)	HF	900	5	21)	BR	1140	10	30)	GO	1430	1
10)	ZR	900	5	22)	MO	1200	1	40)	VF	1430	3
7)	HO	900	5	6)	SW	1200	1	41)	ZF	1430	1
11)	EF	920	5	27)	BF	1200	5	7)	QM	1450	5
11)	8AB	920	1	28)	YF	1200	1	42)	KF	1450	5
12)	–	920	1	29)	OR	1210	20	14)	PL	1460	1
13)	TR	940	5	18)	UR	1230	5	18)	UO	1460	1
14)	PF	940	5	30)	GR	1230	5	43)	WF	1460	5
15)	KR	950	50	31)	IR	1260	10	44)	RF	1480	10
16)	NR	1010	20	32)	FR	1270	10	32)	FO	1530	1
17)	AR	1050	10	7)	HW	1280	5	25)	DO	1530	1
6)	SR	1100	1	33)	JR	1280	5	45)	XF	1530	1
18)	MF	1100	1	7)	HR	1290	10				

+ 71 low power st's less 1kW not mentioned.

Short Waves:

Call	kc	m	kW	Call	kc	m	kW
46) Z	3925	76.43	50	46) Z2	6055	49.55	50/10
46) Z4	3945	76.05	10	46) Z3	9595	31.27	50/10
46) Z5	3945	76.05	10	46) Z6	7230	41.49	10

1) **R. Kansai Ltd,** 1–1, Miyuki-cho, Sumaku, Kobe. **Te:** 71-4321. Chmn: H. Miyazaki. Pres: K. Tanaka. Dir. Gen: S. Sekiguchi. 20.30–15.00. V. by QSL-card – 2) **Iwate Broadc. Co,** 1–57 Uchimaru, Morioka. Pres: T. Ota. Dir. Gen: M. Yoshida. 20.00–15.00 – 3) **Kyushu Asahi Broadc. Co,** Nagahama-cho, Fukuoka. Chmn: I. Dan. 20.30–15.40. V. by QSL-card – 4) **Yamanashi Broadc. System Inc,** 33–2, Marunouchi, Kofu. Pres: J. Noguchi. 20.30–14.45.

5) **Kita-Nihon Broadc. Co,** 1875 Ushijima, Toyama. Pres: R. Yokohama. 21.50–14.10 – 6) **Shinetsu Broadc. Co,** Nagano. Pres: T. Ishihara. 20.00–15.05.

7) **Hokkaido Broadc. Co,** North 1, West 5, Sapporo, Hokkaido. **Te:** 0122-23-8181. St. Mgr: S. Abe. Dir. Tec: K. Kamo. **D.Prgr:** N: 20.55, 22.55, 23.55, 00.55, 01.55, 02.45, 03.40, 04.55, 05.55, 07.55, 08.55, 09.30, 13.50. V. by QSL-card. Prgr. schedule free – 8) **Fukui Broadc. Co,** 35 Ote-machi, Fukui. Pres: S. Kato. Dir. Gen: Y. Yoshida.

9) **San In Broadc. System,** Yonago. Chmn: H. Sakaguchi. Pres: O. Oda. 20.35–15.05.

10) **R. Kochi Broadc. Co,** Kochi. Chmn: G. Fukuda. Pres: M. Katada – 11) **Yamagata Broadc. Co,** Yamagata. Prse: Y. Hattori. 20.00–14.45. V. by QSL-card – 12) **Miyazaki Broadc. Co,** Miyazaki. Chmn: S. Iwakiri. Pres: Y. Kuroki. 20.30–15.05. V. by QSL-card – 13) **Akita Broadc. System,** Akita. Chmn: S. Hitomi. Pres: G. Kurata. 20.00–14.40 – 14) **Yamaguchi Broadc. Co,** Tokuyama. Pres: K. Nomura. 20.30–15.00. V. by QSL-card.
15) **Tokyo Broadc. System,** Main Office: Akasaka, Minato-ku, Tokyo. Te: 584-3111. Cable: JOKR. Chmn: T. Adachi. Pres: K. Shikakura. Dir. Gen: Y. Tanaka, J. Imanichi. Dir. Tec: Y. Wakebe. Dir. Prgr: Y. Wakebe (Radio), N. Omori (TV). 20.00–16.30(Sun 17.00). N: 5 min every h. Ann: "JOKR Kochirawa Tokyo Hoso desu". E: "JOKR This is TBS". V. by QSL-card. Recordings accepted.
16) **Asahi Broadc. Corp,** Main Office and R.st: Nakanoshima, Kitaku, Osaka. Tokyo Office: Yurakucho, Tokyo. Te: 231-8001. Cable: JONRTV. L.P: Pres: K. Suzuki. Vice Pres: T. Hirai. Dir. Gen: K. Hara, D. Ado. Man. Dir: M. Kobayashi, T. Sudo. Dir. Tec: S. Kitamura. Dir. Tokyo Office: K. Tamura. D.Prgr: 20.00–17.00. N: 21.00, 22.00, 23.00, 24.00, 02.00, 03.00, 04.00(W), 05.00(W), 06.00, 07.00(W), 08.00(W), 09.00(W), 09.50(Sun), 13.00, 14.00. Ann: "ABC Asahi Hoso, JONR". V. by QSL-card. Re. in E. Recorded re. preferred.
17) **Chubu-Nippon Broadc. Co,** 4-15 Shinsakae-machi, Naka-ku, Nagoya. Te: 241-81111. Pres: K. Sasabe. D.Prgr: 20.30–16.00. N: every h 21.00–09.00 and 09.15, 12.45, 14.50. V. by QSL-card. Prgr. schedule free.
18) **Nagasaki Broadc. Co,** Nagasaki. Pres: R. Nakabe – 19) **R. Fukushima Broadc. Co,** Fukushima. Pres: T. Tobishima. 20.00–15.30 – 20) **Oita Broadc. Sce,** Oita. Pres: Y. Hoshino. 20.30–15.00. V. by QSL-card – 21) **Kinki Broadc. System Co,** Nakakyo-ku, Kyoto. Chmn: T. Nakano. 20.30–16.00. N: every h on the h from 21.00. V. by QSL-card. Prgr.schedule on request – 22) **Hokuriku Broadc. Co,** Kanazawa. Chmn: Y. Miyashita. Pres: Y. Saga. 20.30–15.00 – 22) **Hokuriku Broadc. Co,** Kanazawa. Chmn: Y. Miyashita. Pres: Y. Saga. 20.30–15.00 – 23) **Minaminihon Broadc. Co,** 17, Korai-cho, Kagoshima. Chmn: K. Ueno. Pres: S. Hatanaka. 23.50–13.55. V. by QSL-card – 24) **Nankai Broadc. Co,** Matsuyama. Pres: Y. Yamanaka – 25) **Broadc. System of Niigata,** 2–18 Kawagishi-cho, Niigata. Chmn: K. Sakaguchi. Pres: E. Horiuchi – 26) **Nippon Cultural Broadc. Inc,** Shinjuku, Tokyo. Pres: S. Mizuno. Mgr: S. Tomoda. 20.00–16.55. Ann: "Okiki no hoso wa Bunka Hoso 1130kc desu". V. by QSL-card – 27) **Kumamoto Broadc. Corp,** 30, Yamasaki-machi, Kumamoto. Chmn: R. Fukami. 23.50–04.40 & 08.30–16.30 – 28) *Ibaraki Broadc. System, 126 Kita, Mito. Pres: T. Goto.*
29) **Mainichi Broadc. System Inc:** Head Office: 53 Funadaiku-cho, Dojima, Kita-ku, Osaka. Tokyo Office: Yuraku-cho, Chiyodaku, Tokyo. Te: Head Office: 361-8231. Cable: Mainichihoso Osaka. Chmn: C. Honda. Pres: S. Takahashi. 20.30–16.00. N: every h on the h 21.00–07.00, 09.00, 14.00. Ann: "MBS, Mainichi Hoso desu". V. by QSL-card. Prgr.schedule on request.
30) **Aomori Broadc. Corp,** 72 Fukuda, Matsumori, Aomori City. Chmn: S. Takeuchi. Pres: I. Sakamoto. Dir. Tec: H. Tomura. D.Prgr: N: 21.00, 22.00, 24.00, 01.00, 03.00, 04.00, 05.00, 06.00, 08.00, 09.30, 13.00. V. by QSL-card.
31) **Tohoku Broadc. Co,** Sendai. Pres: C. Kanno. 20.30–15.15.
32) **RKB Mainichi Broadc. Co,** Fukuoka. Pres: H. Kaneko. 20.45–15.45 – 33) **Shihoku Broadc. Corp,** Tokushima. Chmn: S. Maekawa. Pres: T. Yamauchi. 20.30–16.10.
34) **Nippon Broadc. System, Inc,** Yuraku-cho, Chiyoda-ku, Tokyo. Chmn: K. Uemura. Dir. Gen: N. Shikanai. 24 h. N.Wrp: 00.30, 01.30, 03.30, 05.30, 06.30, 07.30, 09.30, 11.30, 12.30, 13.30, 14.30, 15.30, 17.30, 23.30. Ann: "Okiki no Hoso wa 1310kc Shutsu-ryoku 50kW de ookuri shiteiru Nippon Hoso desu" ("This is Nippon Hoso"). V. by QSL-card.
35) **Tokai R. Broadc. Co,** Higashi-ku, Nagoya. Pres: M. Abo. 20.00–18.00. V. by QSL-card.
36) **R. Chugoku Co,** Motomachi 34, Hiroshima. Te: 21-4191. L.P: Chmn: S. Fujita. Dir. Gen: T. Tsukifuji. Dir. Tec: T. Watanabe. D.Prgr: N: 21.00, 22.00, 22.55, 23.55, 00.55, 01.55, 02.45, 03.55, 06.00, 07.55, 12.45, 13.55. V. by QSL-card. Re. in E.

The **World Radio TV Handbook** is the only international handbook of its kind.

World Radio TV Handbook is used by the managing directors and engineering staffs of radio and television stations. Equipment manufactures looking for world markets are thus presented with an ideal medium for reaching all their potential customers in this fast growing field.

These facts give authority and weight to a sales message in the **World Radio TV Handbook.** It will help increase your sales because it will reach the technical staffs of radio and televisions stations, institutions, organizations, amateurs and short wave listeners.

37) **Osaka Broadc. Corpo,** 27 Umeda-cho, Kita-ku, Osaka. Te: 361-3271. Pres: H. Maeda. 20.30–17.30. Ann: "Okiki no hoso wa Rajio Osaka desu". Int-Sig: Gong. V. by QSL-card. Recordings accepted.
38) **Shizuoka Broadc. System,** Shizuoka. Chmn: K. Komuratani. Pres: M. Oishi. 20.30–14.30 – 39) **Sanyo Broadc. Co,** Okayama. Chmn: H. Taniguchi. Pres: M. Tatsumi. 20.30–15.00. V. by QSL-card – 40) **Wakayama Broadc. Corp,** Wakayama. Chmn: K. Maeda. Pres: O. Tsubota. 20.30–15.30 – 41) **R. Gifu Broadc. Co. Ltd,** 9 Imakomachi, Gifu City. Pres: T. Yamada – 42) **Nishi-Nippon Broadc. Co,** Chmn: T. Hirai. Pres: J. Hirai – 43) **Sapporo TV Broadc. Co,** 1 chome-Nishi, Minami Ichijo, Sapporo. Chmn: R. Hagiwara. Pres: T. Kubota. 44) **R. Kanto,** Oimatsu-cho, Nishi-ku, Yokohama. Chmn: H. Sasaki. Pres: K. Koshida. 20.00–16.35. V. by QSL-card – 45) **R. Tochigi Co,** Tochigi Hall, Utsunomiya. Pres: Y. Fukushima.
46) **Nihon Shortwave Broadc. Co,** Akasaka, Minato-ku, Tokyo. Te: 583-8151. Chmn: S. Odajima. Pres: M. Nakajima. Mgr: B. Ando. Dir. Tec: T. Kawahara. Dir. Prgr: S. Iizawa. D.Prgr: 20.30–15.50. N: 23.30, 03.30, 08.30, 11.30. SW-schedule: 1st Prgr: 20.30–15.50 on 3925/6055/9595kc; 20.30–23.00 & 08.00–15.50 on 3945kc JOZ4 (Sapporo). 2nd Prgr: 23.15–07.20 on 3945/7230kc (Tokyo). Ann: "Okiki no Houso wa Nihon Tampa Houso desu". V. by QSL-card.

FM-TOKAI (Comm.)
ADDR: 28 Somigaya 2-chome, Shibuay-ku, Tokyo. Te: 467-5123. L.P: Dir. Gen: T. Watanabe. St. Mgr: M. Matsuo. Dir. Tec: T. Hiraga – STATIONS: 2tr's on 84.5Mc (both 1kW) – HOME SCE: 20.20–15.30. N: 23.00, 03.00(W), 06.00(W), 08.00.
ANN: "Kochirawa FM-Tokai desu, JS2H" – V. by letter. Re. in E. Rp. Programme Guide free.

FAR EAST NETWORK (AFRTS)
The network serves the members of the US-Forces serving in the F. East – Authority: The st's in Japan broadcast by authority of the Commander, US Forces. Japan, in cooperation with the Japanese Radio Regulatory Bureau. St's are linked by land line, and operated 24 h daily – ADDR: Headquarters, Far East Network, APO, San Francisco 96267. Te: Tokyo 516-6-2234 – L.P: Chief: Lt. Col. M. Miranda. Dir. Prgr: J. F. Bucy. Dir. Tec: H. Yaskal.
STATIONS: °=Short Wave.

Location	kc	kW	Location	kc	kW
Tokyo	°810	10	Chitose	1570	0.25
Iwo Jima	1500	0.1	Sasebo	1570	0.25
Itazuke	1550	10	Misawa	1580	0.25
Wakkanai	1580	0.1	Iwakuni	1580	1

Short Waves: *=Tokyo.
3910kc 76.73m 10/1kW: 07.15–22.40 10kW, 22.50–07.05 1kW.
6155kc 48.74m 10kW: 24 h[2].
11750kc 25.53m 10/1kW: 22.50–07.05 10kW, 07.15–22.40 1kW.
15260kc 19.66m 1kW: 24 h[4].
* Power and direction vary to meet point to point commitments for rebroadc. from AFRTS st's in Japan, Korea, Okinawa, Taiwan, Iwo-Jima – N: Every h on the h.
ANN: "This is the Far East Network... Far East Network, Tokyo (Chitose, Itazuke etc.)" plus freq's on shortwave – V. by QSL-card – PUB: Master schedule (monthly).

Accurate information
Beautiful expression
Cheerful programs

TV: **JONR-TV 6** CH
RADIO: **JONR 1010** KC

ABC

abc ASAHI BROADCASTING CORP.

Main Office & Radio Studio: 2 Nakanoshima, Kita-ku, Osaka, Japan
Television Studio: Naka 1-chome, Dojima, Kita-ku, Osaka, Japan
Tokyo Office: 2-chome, Yuraku-cho, Chiyoda-ku, Tokyo, Japan

JORDAN

L.T: GMT+2 h – Pr.L: Arabic, English.

THE BROADCASTING SERVICE OF THE HASHEMITE KINGDOM OF JORDAN (Gov.)

ADDR: P.O. Box 909, Amman. Cable: Broadcasting. Te: 27711.

L.P: Minister of Inf: H. H. A. Sharaf. Dir. Gen. of Broadc: H. E. S. Aweidah. Asst. Dir. Gen. Eng: A. Bayat. Asst. Dir. Gen. Adm: O. Sokhon. Dir. Tec: A. Bayat. Dir. Prgr. M. Shahid.

STATIONS: 677kc Jerusalem. Others, Amman.

kc	m	kW	kc	m	kW	kc	m	kW
800	375.0	100	9530	31.48	100	11870	25.27	100
677	443.0	20	9560	31.38	100	11970	25.06	100
6020	49.83	3	9740	30.80	100	15170	19.78	100
7155	41.92	100	11810	25.40	5	15345	19.55	100

HOME SCE: Amman: Arabic: 03.30–07.30 on 677/800/7155/11810 kc; 07.30–14.00 on 800/9530/11810kc; 14.00–23.00 on 800/7155/9530/11810kc; also on 677kc at 18.30–23.00. N: 05.00, 06.00, 08.00, 12.00, 13.00, 16.00, 17.00, 19.00, 21.00, 22.00.

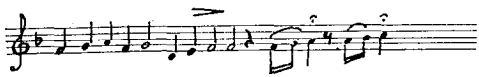
Jerusalem: English: 10.00–18.30. *Arabic:* 09.00–10.00.

FOREIGN SERVICE

So. American Sce: Arabic, Spanish: 23.00–01.30 on 15170 (stand by 11870, 15345kc) – N: Spanish 23.00, Arabic 00.30.

ANN: Arabic: "Hunna Amman Ithaatul Mamlakate Al Urdoniete Al Hashemieh" – E: "This is Amman the Broadcasting Service of the Hashemite Kingdom of Jordan" – Sp: "Aqui Radio Amman, R. Dif. Del Reino Hashemita De Jordania".

INT-SIG: Clarinet, piano



V. by QSL-card or letter. Recordings accepted.

The Marconi Company Ltd, GB: 1×7.5kW, 2×100kW sw-tr's, 2×100kW mw-tr.

KOREA (Peoples Democratic Republic)

L.T: GMT+9 h – Pr.L: Korean.

KOREAN CENTRAL BROADCASTING STATION

ADDR: Korean Central Broadc. Committee, Pyongyang.

STATIONS: Medium Waves:

605 kc	635 kc	685 kc	735 kc	800 kc	1080 kc
625 –	655 –	725 –	785 –	820 –	

Short Waves: 5/10/20/50kW.

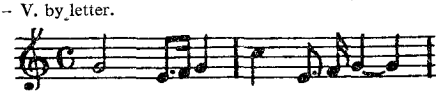
kc	m	kc	m	kc	m	kc	m
2850	105.3	6250	48.00	7580	38.22	13750	21.82
3320	90.34	6540	45.87	9750	30.77	14520	20.66
5044	59.48	6600	45.45	9875	30.38	15520	19.33
5640	53.19	6730	44.58	11750	25.53		

HOME SCE. in Korean: 1st prgr: 20.00–15.00 on 605/725/785/2850kc, 23.00–08.00 on 6600kc – 2nd prgr: 20.00–17.00 on 625/655/685/735/800/820/1080/6250kc, 20.00–23.00 & 08.00–17.00 on 3320kc.

FOREIGN SERVICE

Japanese: 21.00 22.00 on 635/5044/5640/6540/6730kc, 09.00–10.00 on 635/6540/7580kc, 10.00–11.00 on 635kc, 11.00–12.00 on 635/6540/7580kc, 12.00–13.00 on 635kc, 13.00–14.00 on 635/5044/6540kc, 14.00–15.00 on 635kc – English: 19.00–20.00 on 6540/7580/9875/11750kc to Mid. East, 23.00–24.00 on 6540/7580/9750/11750kc to So. Ea. Asia, 04.00–05.00 on 14520/15520kc to Mid East/Africa, 14.00–15.00 on 9750/13750kc – Chinese: 22.00–23.00 on 6540/7580/9750/11750kc, 12.00–13.00 on 13750/15520kc to So. Ea. Asia – Russian: 18.00–19.00 on 6540/7580/9875/11750kc, 03.00–04.00 on 6540/7580kc to Europe, 10.00–11.00 on 6540/7580kc to Far East – French: 15.00–16.00 on 9750/13750kc to So. Ea. Asia, 20.00–21.00 on 6540/7580/9875/11750kc to Mid. East/Africa – Spanish: 01.00–02.00 on 11750/14520kc to Latin America – Korean: 16.00–17.00 on 9750/13750kc to So. Ea. Asia, 17.00–18.00 on 6540kc to Mid. East/Africa, on 7580kc to Europe, 00.00–01.00 on 6540/7580/9750/11750kc to So. Ea. Asia, 02.00–03.00 on 11750/14520kc to Latin America, 05.00–06.00 on 14520/15520kc to Mid. East/Africa.

ANN: E: "This is Korean Central Broadcasting Station, Pyongyang" – V. by letter.



KOREA (Republic of)

L.T: GMT+9 h – Pr.L: Korean.

THE KOREAN BROADCASTING SYSTEM (Gov.)

ADDR: Overseas Broadcasting Station, Yejangdong 8, Chung-ku, Seoul. Te: 23-1676 – L.P: Bureau Dir: C. Hong. Chief Eng: I. K. Lee. Overseas Sce. (HLSA): C. P. Noh. Home Sce: St. Dir. (HLKA): H. S. Lee. Dir. TV (HLCK): J. Y. Kim.

STATIONS:

Medium Waves: ° = Short Wave.

Name	Call	kc	kW	Name	Call	kc	kW
Sogwipo	HLCF	540	1	Chongju	HLKQ	920	1
Hongsung	HLCZ	540	1	Chulwon	HLCO	920	1
Youngwol	HLCV	540	1	Andong	HLCR	940	1
Chinju	HLCJ	560	1	Cheju	HLKS	940	1
Chonju	HLKF	570	10	Seoul	HLCA	°970	500
Masan	HLKD	570	1	Namwon	HLKL	1030	1
Kangnung	HLKR	575	10	Hwachun	HLCG	1030	1
Seoul	HLSA	°600	100	Choongju	HLCH	1090	1
Choonchun	HLKM	650	1	Samchok	HLCI	1120	1
Kwangju	HLKH	750	10	Wonju	HLCW	1190	1
Seoul	HLKA	°710	100	Wollungdo	HLCU	1320	0.3
Taegu	HLKG	740	10	Yosu	HLCY	1340	1
Mokpo	HLKN	860	1	Pohang	HLCP	1420	0.25
Taejon	HLKI	880	10	Sokcho	HLCS	1570	0.3
Pusan	HLKB	890	50				

Short Waves: 1) Seoul, 2) Suwon.

Call	kc	m	kW	Call	kc	m	kW
1) HLK50	2510	119.50	10	1) HLK30	7190	41.72	1
1) HLK51	3910	76.73	5	2) HLK5	9640	31.12	50
1) HLK22	5975	50.21	10	2) HLK6	11925	25.17	50
2) HLK31	6015	49.88	50	2) HLK41	15125	19.83	50
2) HLK53	6035	49.71	10				

HOME SERVICE:

1st Prgr: (Korean): 20.00–17.00 on 710/2510/3910/5975/7190kc. N: 21.00, 22.00, 23.00, 01.00, 03.00, 04.00, 06.00, 07.00, 08.00, 09.00, 10.00, 12.00, 13.00, 14.00 – 2nd Prgr. (Korean): 20.00–17.00.

FOREIGN SERVICE:

On 970kc: 20.00–21.30, 13.00–17.00 – Korean: 20.00–21.30, 14.00–17.00. – Japanese: 13.00–14.00.

On 9640kc: 21.00–23.00, 01.00–02.00, 05.00–05.30, 08.00–11.30, 12.00–14.00 – Japanese: 01.30–02.00, 09.00–10.00 – Chinese: 22.00–22.30, 08.00–08.30, 10.00–10.30, 13.00–13.30 – Russian: 22.30–23.00, 13.30–14.00 – Korean: 21.30–22.00, 23.00–23.30, 01.00–01.30, 11.00–11.30, 12.00–13.00 – English: 21.00–21.30, 05.00–05.30, 10.30–11.00 (Gen. Sce.)

On 15125kc: 21.30–22.00, 02.30–04.00, 06.30–07.30, 14.30–16.30. English: 03.00–03.30 (to USA), 06.30–09.00(to Europe), 15.30–16.00 (to So. Ea. Asia) – French: 07.00–07.30(to Europe), 16.00–16.30 (to So. Ea. Asia) – Spanish: 03.30–04.00 (to Latin America) – Chinese: 15.00–15.30 – Korean: 21.30–22.00, 02.30–03.00, 14.30–15.00.

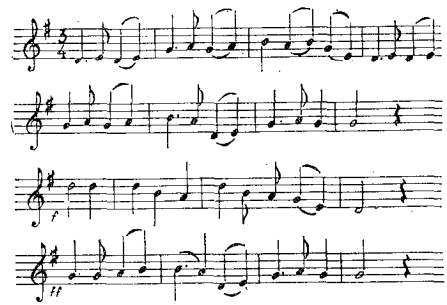
On 6015kc: 09.00–13.00 – Japanese: 12.00–13.00 – Korean: 09.00–12.00.

N: English: 21.00, 03.00, 05.00, 06.30, 08.30, 10.30, 15.30 – French: 07.00, 16.00. Spanish: 03.30. Chinese: 22.00, 08.00, 13.00, 15.00. Russian: 22.45, 13.45. Japanese: 01.30, 09.00, 12.00.

DX PRGR (in English): Last Thurs: 03.15 on 15125kc, 05.15 on 9640kc, 06.45 on 15125kc, 10.45 on 9640kc, 15.45 on 15125kc, 21.15 on 9640kc.

ANN: Korean: "KBS Seoul Choong-ang bang song kuk che il bang song im ni da HLKA" (KBS this is the first network of Seoul Central Broadc. Station, HLKA). English: "This is the Voice of Free Korea, the Korean Broadc. System in Seoul, Korea".

INT-SIG: Foreign Sce: Korean Folk Music played as Yang-geum with orchestra:



V. by QSL-card or letter – PUB: pamphlet, pennant free to listeners. "Korean Radio & TV" (English) yearly.

Brown, Boveri & Co: 2×250kW mw-tr – Nippon Electric Co: 2×10 kW, 1×1kW mw-tr.

CHRISTIAN BROADCASTING SYSTEM
(Non-comm, Indep.)
FI: By donations from rlg. groups and interested individuals.
ADDR: 91 Chongno 2-ka. Seoul. Te: 741761 – L.P: Dir: E. O. De Camp. Mgr: Y. H. Choi. Dir. Tec: Y. H. Park.

STATIONS:	kc	m	kW		kc	m	kW
HLKY[1]	840	357	10	HLKP[3]	1400	214	1
HLKT[2]	1000	300	1	HLCM[5]	1400	214	1
HLCL[4]	1000	300	1	HLKY-FM 104Mc			

[1] Seoul. [2] Taegu. [3] Pusan. [4] Kwangju. [5] Iri.
HOME SCE: Korean: 20.20–15.00 – N, Wrp: 21.30, 21.50, 22.50, 02.50, 03.50, 04.50, 06.50, 08.50, 10.50, 12.50. English (for UN Forces): Sun 23.00–03.00, 12.30–13.00 (Rlg. prgr.) – ANN: "This is CBS, The Christian Broadc. System, HLKY, Seoul" – V. by letter. Recordings accepted – F.PL: St. at Taejon – PUB: Special Music prgr. (monthly).
Tr's: RCA (HLKY/HLCL), Western Electric (HLKT/HLCM), Collins (HLKP), Raytheon (HLKY-FM).

RADIO STATION HLKX (Religious, Educational)
Operated by the Evangelical Alliance Mission, 2845 W. McLean Av, Chicago 47, Ill, USA – FI: By contributions and free-will offerings.
ADDR: Box 16, Inchon. Te: 2-2910. Cable: Team Radio. – L.P: St. Mgr: R. L. Livingston.
STATION (System: RCA): 1060kc 285m 50kW.
HOME SCE in Korean, Chinese, English, Russian:
Sat 05.30–Sun 22.00 (without break), other days 05.00–22.00.
Korean: 09.00–10.00(exc. Sat), 17.00–19.00(Sun 20.00), 22.00–23.00 (exc. Sun) – Chinese: 05.00–07.00(exc. Sat), 13.00–15.00(exc. Sat), 17.00–19.00(exc. Sat/Sun), 20.00–22.00(Sun only) – English: 05.30–13.00(Sat), 23.30–09.00(Sun), 07.00–09.00(Mon–Fri) – Russian: 11.00–13.00(exc. Sat), 13.00–15.00(Sat only), 15.00–17.00, 19.00–21.00 (Sat only).
Note: Although times are GMT, calendar days apply to Korea only.
ANN: "This is the Voice of Gospel – Team Radio HLKX, Inchon, Korea – a missionary project of the Evangelical Alliance Mission Chicago Ill" – V. by QSL-card or letter. Recordings accepted – PUB: Prgr.schedule free. HLKX-Echoes (quaterly).

MOON HWA BROADCASTING CO (Comm.)
ADDR: No. 3, 3rd St, Choongang-dong, Choong-koo, Pusan. Te: 2-9111 – L.P: Dir. Gen: A. Sung Soo. St. Mgr: H. U. Yong. Dir. Tec: C. C. Ho.
STATION (System: Collins): HLKU 1160kc 10kW.
HOME SCE. in Korean: 20.00–15.00 – N: 20.55, 21.55, 22.50, 01.55, 02.50, 03.50, 05.55, 08.55, 09.55, 10.55, 11.50, 13.55 – English (conversation & music): 21.00–21.30 – ANN: "MBC, Moon Hwa' Bang Song Imnida, HLKU" – V. by letter. Recordings accepted – F.Pl: TV st. in 1966.

DONG-A BROADCASTING SYSTEM (DBS) (Comm, Private)
ADDR: 139, Sejong-no Chongno-ku, Seoul – L.P: Pres: Koh, Jae Uk. Dir. Gen: Cho, Byung Yoon. Dir. Prgr: Cho, Kap Joon. Dir. Tec: Kim, Suk Mo – STATION: HLKJ (Seoul) 1230kc 10kW.
HOME SCE: 20.00–15.00. N, Wrp: 21.00, 22.00, 23.00, 02.00, 03.00, 04.00, 06.00, 07.00, 08.00, 10.00, 12.00, 13.00, 14.00.

HANKOOK MOONWHA BROADC. CORPO. (Comm, Priv.)
ADDR: 15, Insadong chongno-ku, Seoul – L.P: Pres: Cho, Zung Chul. Man. Dir: Youn, Suck Rin. Dir. Tec: Jun, Yong In.
STATIONS: HLKV (Seoul) 900kc 10kW – HLCT (Taegu) 810kc 1kW – HLCN (Kwangju) 820kc 1kW – HLCQ (Taejon) 580kc 1kW – HLCX (Chonju) 1140kc 5kW.
HOME SCE: 20.00–15.00. N, Wrp: 20.55, 21.55, 22.50, 01.55, 02.50, 03.00, 03.50, 05.55, 07.55, 08.55, 09.55, 10.55, 11.50, 12.50, 13.50.

JOONG-ANG R. BROADC. COMPANY, LTD.
(Comm, Private)
ADDR: 19, 1-ka Taipyung-no chung-ku, Seoul – L.P: Pres: Hong, Jin Ki. Man. Dir: Chung. Hwan Ok. Dir. Tec: Choi, Dang.
STATION: HLKC (Seoul) 640kc 20kW.
HOME SCE: 20.00–16.00. N, Wrp: 21.00, 22.00, 23.00, 02.00, 03.00, 04.00, 05.00, 06.00, 07.00, 08.00, 09.00, 10.00, 12.00, 13.00, 14.00.

AMERICAN FORCES KOREA NETWORK
ADDR: Headquarters U.S. Army Element, American Forces Korea Network, APO San Francisco 96301, Calif, USA. Te: Yongsan 2495 – L.P: Commanding Officer: Lt. Col. H. R. Bangs (Inf.) Dep. Commanding Officer: Lt. H. H. Herrin (AF). Dir. of Prgr's: Ed. Masters. Chief of Engineering: C. I. Barr Jr.

STATIONS: 24 h	kc	kW		kc	kW
Seoul[1]	560	1	Osan[3]	1360	1
Taegu[6]	580	1	Unchon[7]	1400	1
Munsan-Ni[4]	580	1	Wonju	1440	1
Pusan[5]	780	1	Kunsan[8]	1440	1
Chunchon	1040	1	Waegwan	1440	0.25
Kwangju	1150	0.25	Taejon	1480	1
Cheju-do	1150	0.25	Pohang	1510	0.25
Kwandae-Ri	1160	0.25	Pyangyangdo	1510	0.25
Tongduchon[2]	1200	1			

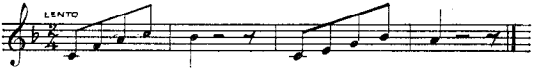
FM: Seoul[1], 102.7Mc 1kW – Hwaaksan 89.1Mc, 0.05kW.
1 = "Vagabond", 2 = "Bayonet", 3 = "Comet", 4 = "Tomahawk", 5 – "Homesteader", 6 = "Kilroy", 7 = "Gypsy", 8 = "Mercury", rel. 560kc. Kunsan, Chunchon, Taejon may change frequency to 780kc.
N: Every h on the h – ANN: "This is the American Forces Korea Network". Local identification: "This is R. "Vagabond" in Seoul" etc. – V. by QSL-card. Re. to Hqs. AFKN, APO 96301, S. Francisco, Calif, USA. Rp.

KUWAIT

L.T: GMT+3 h – Pr.L: Arabic.
KUWAIT BROADCASTING & TELEVISION SERVICE (Gov.)
ADDR: P.O. Box 193, Kuwait. Te: 39411. Cable: Alirshad – L.P: Minister of Guidance & Inf: H. E. Jaber Al-Ali Al-Salem Al-Sabah. Under Secr: Sa'dun Al-Jassim. Asst. Under Secr (Adm. & Finance): A. A. Samad. Asst. Under Secr (Broadc): A. A. Ja'far. Chief Eng: R. Karrer. Dep. Chief Eng: A. E. Houty.
STATION: mw: 1/10/100kW; sw: 1/10/50kW.

kc	m	kc	m	kc	m	kc	m
539	556.5	*4967.5	60.25	11940	25.12	17750	16.90
1130	265.0	**6055	49.55	°15150	19.80	21525	13.94
1345	223.2						

* = throughout the year; ** = Wi. only; ° = Su. only.
HOME SCE. in Arabic: 02.25–21.15 – N, Wrp: 03.00, 05.00, 10.00, 13.00, 13.15(official ann), 17.00, 19.00, 21.00 – English: D. 17.00–19.00 on 1130/4967.5kc. N: 17.15.
ANN: "Huna I' tha't Al Kuwait" – INT-SIG: "We", an old Kuwaiti tune played on Violin.



V. by QSL-card. Recordings accepted – F.Pl: 100kW sw- & mw-tr's (1966), 4 × 250kW sw-tr's (1967).
The Marconi Company Ltd: 2 × 100kW mw-tr's.
Wilh Franz KG: EMT studio equip.

LAOS (Kingdom of)

L.T: GMT+7 h – Pr.L: Laotian, French.
RADIODIFFUSION NATIONALE LAO (Gov.)
ADDR: Vientiane. Te: 2457 – L.P: Dir. Gen: Bounthamaly. Mgr: Phimavong. Dir. Tec: Viengsavan. Dir. Prgr's: M. Chantharansy.
STATIONS: (System: Marconi) 6130kc 48.94m 1kW.
HOME SCE. in Laotian, French, Vietnamese: 23.30–02.00, 05.00–07.00, 10.00–14.30 – N: Laotian: 00.00, 05.30, 12.00. French: 00.30, 05.45, 13.15. Vietnamese: 13.00 – English Lessons: 20.45 (3 times weekly).
ANN: F: "Ici Vientiane, R.diff. Nationale Lao" – INT-SIG: Music on Khéne, instrument of Bamboo – V. by QSL-card. Rp. Recordings accepted – F.PL: 50kW (mw)+Reg. netw.

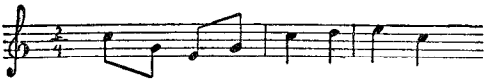
LEBANON

L.T: GMT+2 h – Pr.L: Arabic, French, English.
LEBANESE BROADCASTING STATION (Gov.)
ADDR: R. Lebanon, Ministry of Orientation, Information and Tourism, Beirut. Te: 251880. Cable: Radioliban – L.P: Dir. Gen: J. Zaarour. Dir. of Broadc: H. Al Hassan. Dir. Tec: J. Rouhayem. Dir. Prgr: N. Khoury. Head of Adm: K. Hage Ali.
STATIONS: 989kc 10kW, others 100kW.

kc	m	kc	m	kc	m	kc	m
836	359	5980	50.17	9710	30.90	11810	25.40
989	303.3	9545	31.43	11790	25.45		

HOME SCE: Prgr. I (Arabic): On 836kc: 04.30–07.30, 09.25–22.30. On 5980kc: 04.30–07.30, 14.15–18.20. On 9545kc: 09.30–14.00 – N: 05.00, 06.00, 07.00, 10.00, 11.00, 12.00, 16.00, 17.00, 18.00, 20.00, 21.50.
Prgr. II (on 989kc): French: 05.30–06.00, 11.00–12.30, 17.00–20.00 – N: 05.30, 11.30, 12.00, 17.45, 19.55 – L.L. English: Thurs 17.15, French: Wed 17.15 – English: 15.00–17.00. N: 15.00 – Arabic, English, French: 06.00–09.00, 12.30–15.00.
FOREIGN SCE: 18.30–20.30 on 11810kc to Africa in English, Arabic, French; 23.00–01.00 on 11790kc to So. America in Portuguese, Arabic, Spanish; 01.30–04.00 on 9710kc to No. America in English, French, Arabic, Spanish.
English: 18.30–19.00, 02.30–03.00. French: 20.00–20.30, 01.30–02.00. Portuguese: 23.00–23.30. Spanish: 00.30–01.00, 03.30–04.00. Arabic: 19.00–20.00, 23.30–00.30, 02.00–02.30 (East Coast US), 03.00–03.30 (West Coast US).

ANN: Arabic: "Houna Beyrouth, Dar al'lza'a al Loubaniat" – F: "Ici Beyrouth, Station de Radiodiff. Libanaise" – E: "This is the English prgr. of the Lebanese Broadc. Station in Beirut" – Sp: "Aqui Beyrouth el Libano transmitiendo pare America del Sur (or: America del Norte)" – P: "Aqui Beirut, o Libano falando ao Brasil" – V. by letter. Rp – INT-SIG: Guitar (Opening notes from the Lebanese National Anthem)



Wilh. Franz KG, Germany: EMT studio equip.

MACAU (Portuguese China)

L.T: GMT+8 h – Pr.L: Portuguese, Chinese, English.

EMISSORA DE RADIODIFUSÃO DE MACAU (Gov.)
ADDR: Macau. Cable: ERM. Te: 4491–25 – L.P: Dir. Gen: J. B. P. Baptista. Dir. Tec: F. A. de Macedo Pinto.
STATIONS: 1200kc 0.25kW – FM: 98.0Mc 1kW (relay 1200kc) – HOME SCE: Portuguese: 23.00–00.30, 12.00–15.00 – Chinese: 09.30–11.30 – ANN: "Aqui Emissora de R.difusão de Macau" – V. by letter or QSL-card. Recordings accepted.

EMISSORA VILA VERDE (Priv.-Comm.)
ADDR: R. Francisco Xavier Pereira 123, Macau. Cable: Vila. Te: 3355.
STATIONS: 1005kc 298m 0.25kW – 735kc 408m 10kW.
FM: 89.0Mc 5W (relay 735kc).
HOME SCE: Chinese: 23.00–16.00 on 735kc – Portuguese: 05.00–06.30, 12.00–16.00 on 1005kc.
ANN: P: "Aqui Emissora Vila Verde Macau" – INT-SIG: chimes – V. by letter or QSL-card.

MALAYSIA (Federation of)

L.T: GMT+7½ h – Pr. L: Malay, English.

RADIO MALAYSIA (Gov.)
FI: By state. Comm. Sce was inaugurated Jan 1st 1962 – ADDR: Dept. of Radio, P.O. Box 1047, Kuala Lumpur. Te: 23551. Cable: Broadcasts. – L.P: Dir: Dol Ramli. Dep. Dir: Murtadza Za'ba. Contr. of Prgr's: H. Hassan. Chief Eng: S. Gupta. Publicity Officer: F. Puerto.
STATIONS (Systems: Gates, RCA, NEC): M=Malay, I=Indian, C=Chinese.

	kc	kW	L		kc	kW	L
Johore Bahru	570	10	M	Johore Bahru	940	10	E
Kuala Lumpur	590	20	M	K. Trengganu	960	0.3	M
Penang	660	10	M	Malacca	1005	10	M
Kota Bahru	700	10	M	Penang	1040	10	C/I
Ipoh	550	5	M	Kuala Lumpur	1070	20	E
Kuantan	810	0.3	M	Malacca	1160	10	E
Kota Bahru	840	10	E	Ipoh	1260	5	C/I
Penang	860	10	E	Johore Bahru	1220	10	C/I
Kuala Lumpur	880	20	E	Malacca	1280	10	C/I
Ipoh	740	5	E				

Short Waves: a) Kuala Lumpur (Kajang). b) Penang.

kc	m	kW	L	kc	m	kW	L
4790b	62.63	10	M	7110a	42.19	50	°
4985b	60.18	10	E	7280b	41.21	10	M
6025a	49.79	5	C	7305b	41.07	10	E
6100a	49.18	100	°	9515b	31.53	10	M
6135a	48.90	10	I	9750a	30.76	50	°
6175a	48.58	100	°	11900a	25.21	100	°

° = "Voice of Malaysia".
HOME SCE. in Malay, English, Chinese, Indian:
Malay on 550/570/590/660/700/810/960/1005/4790/7280/9515kc: Mon/Wed: 22.30–01.30, 04.30–06.30, 09.00(Tues, Thurs 07.30)–16.30. Fri/Sat/Sun: 22.30–16.30 – N: 00.00, 01.00, 06.00, 09.30, 12.30, 14.30 – Comm. Prgr's: 22.30–01.30, 04.30–06.30, Fri: 22.30–01.30, 06.00–08.00, 09.30–11.00, 11.45–13.00. Sat/Sun: 22.30–11.00, 11.45–13.00.
English on 740/840/860/880/940/1160/4985/7305kc: Mon–Fri: 22.30–01.30, 05.30–06.30, 09.30–16.30. Sat: 22.30–01.30, 05.30–16.30. Sun: 22.30–16.30 – N: 23.30, 00.30, 06.00, 09.30, 11.00, 14.00 – Comm. Prgr's: 22.30–01.30, 05.30–06.30 (Sun: 01.30–03.30, 04.30–05.30), 09.30–10.30 (Sat/Sun: 08.30–09.30), 12.30–14.30.
Chinese on 1040/1070/1220/1260/1280/6025kc: Mon-Fri: 22.55–01.30, 04.30–05.45, 08.30–16.30. Sat/Sun: 22.55–16.30, – N: 23.00, 00.00, 00.30, 05.20, 05.35, 09.30, 12.30, 13.30, 14.30, 15.20 – Comm.Prgr's: 22.55–01.30, 04.30–05.45, 08.30–10.30 (Sat/Sun: 08.00–08.30), 12.30–14.30.
Indian on 1040/1070/1220/1260/1280/6135kc: Mon–Fri: 22.00–00.30, 05.45–07.30, 09.00–15.30. Sat: 22.00–03.30, 05.45–15.30. Sun: 22.00–15.30 – N: 22.45, 06.00, 09.30, 11.30, 14.00 – Comm.Prgr's: 22.00–22.55, 05.45–07.30 (Sat/Sun: 01.30–03.30, 07.30–08.00), 10.30–11.00, 13.30–14.30.
OVERSEAS SERVICE ("Voice of Malaysia"):
On 6100/6175/7110/9750/11900kc:
English: 22.45–23.15, 11.15–12.15. N: 23.00, 11.30 – Mandarin: 00.30–01.00, 10.00–11.00. N: 00.31, 10.15 – Indonesian: 23.15–00.15, 01.00–02.00(Sun), 09.00–11.00, 12.30–16.30. N: 23.30, 00.30(Sun), 09.01, 10.45, 12.45, 14.00, 15.45.
ANN: Malay: "Ini-lah R. Malaysia". E: "This is R. Malaysia" – INT-SIG: First bar of Nat. Anthem "Negara Ku" (Chimes) – V. by letter. Recordings accepted – F.Pl: 3×100kW & 3×50kW sw-tr's for Overseas Service, 2×10kW mw-tr's at Kuala Trengganu and at Kuantan – PUB: Prgr.sched. for Home Sce (Malay, English, Mandarin, Tamil) and Overseas Sce (Indonesian, Mandarin, English) weekly.

R. RAAF BUTTERWORTH (A voluntary, non-profit organization) – ADDR: RAAF Base, Butterworth, Malaysia – STATION: 1445kc 0.5kW – D.PRGR: Mon–Fri 22.30–05.30, 09.30–14.30 (Fri 15.30). Sat 01.30–02.30, 07.30–15.30. Sun 05.00–15.00.
V. by letter and prgr.schedule.

REDIFFUSION (MALAYA) LTD.
A subsidiary of Rediffusion Ltd. London (Comm) – FI: By subscription charges and adv – L.P: Man. Dir: G. H. Oldridge.
Kuala Lumpur: P.O. Box 570. Te: 81941. Cable: Rediffuse. St. Mgr: P. J. M. Patten – Two simultaneous wired broadc. networks. Originating own prgr's and rel. "R. Malaysia", B.B.C. etc. Penang: P.O. Box 559. Te: 61761. Cable: Rediffuse. St. Mgr: L. H. Adams. Two simultaneous wired broadc. networks. Originating own prgr's and rel. "R. Malaysia", B.B.C. etc. Ipoh: 127 Jalan Pasir Puteh, Ipoh, Perak. Te: 72173. St. Mgr: P. J. M. Patten. Two simultaneous wired broadc. networks. Originating own prgr's and relaying Rediff. Kuala Lumpur, R. Malaysia, B.B.C. etc.

MALDIVE ISLANDS

L.T: GMT+5½ h – Pr.L: Sinhalese, Tamil, English.

MALDIVE ISLANDS BROADCASTING SCE. (Gov.)
ADDR: Male Sinico Radio, Male Island.
STATIONS: 15kW: 3223kc 93.09m – 7150kc 41.96m – 9552kc 31.41m
HOME SCE. in Sinhalese, Hindi, Tamil, English (test tr's):
01.30–04.00 on 7150kc, 07.00–09.30 on 9552kc, 12.30–17.30 on 3223kc.
N. in English: 03.00, 09.00, 17.00.

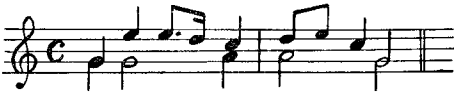
MONGOLIA (Peoples Rep)

L.T: GMT+8 h – Pr.L: Mongolian.

ULAN BATOR RADIO (Gov.)
ADDR: Radio Ulan Bator, Ulan Bator. Cable: Mongolian Radio.
L.P: Dir. of Foreign Relations: Doyod.
STATIONS: Ulan Bator; * Tsanagur. ** Ulgei.

kc	m	kW	kc	m	kW	kc	m	kW
227	1322	150	4070	73.73	25	9540	31.45	50
3215	93.30	60	5067	59.21	25	10885	27.60	25
*3222	93.10	5	5960	50.34	50	11850	25.32	50
**3972	75.51	20	6135	48.90	25			

HOME SCE: 1st Prgr: 22.55–15.05 on 227/5067/10885kc – 2nd Prgr: 09.00–14.05 on 4070/6135kc in Mongolian, Chinese, Russian, Kazakh.
FOREIGN SERVICE: English (to Far East) 21.30–22.30(Mon–Fri) on 9540/11850kc, 14.20–15.20(Tues–Sat) on 9540/11850kc.
ANN: "Ankhararai Ulanbatras jarsj baina" (Attention: This is Ulan Bator Calling) – V. by QSL-card – INT-SIG:



NEPAL

L.T: GMT+5.40 h – Pr.L: Nepali, Newari, Hindi, English.

RADIO NEPAL (Gov.)
AD: between 07.20–08.20 – ADDR: Dept. of Broadc, His Majesty's Go. of Nepal, Kathmandu. Te: 11569 – L.P: Dir: P. M. Singh, Superintending Eng: K. B. Khatry.
STATIONS (Systems: Philips, AWA):
9NBM 1500kc 200.0m 0.25kW
9NB7 4600kc 65.22m 5kW – 7105kc 42.22m 5kW
HOME SCE: 02.20–04.20, 07.20–09.20 (sw only), 13.20–15.20.
N. in English: 03.00, 09.00. N. in Nepali: 02.50, 08.50, 15.05. N. in Newari: 04.05, 15.15.

EXTERNAL SCE: Sat 01.20–02.05 on 7105kc for Nepalese abroad. ANN: Nepali: "Yo R. Nepal Ho". Newari: "Tho R. Nepal Kha". English: "This is R. Nepal" – INT-SIG: Instruments used: Conch-Shell, Violin, Piano and Jal-Tarang – V. by QSL-card. Rp – F.PL: 100kW sw-tr.

PAKISTAN

L.T: We. Pakistan: GMT+5 h. Ea. Pakistan: GMT+6 h – Pr.L: Urdu, Bengali.

RADIO PAKISTAN (Gov.)

1st ADDR: 71-Garden Road, Karachi-3. Te: 70263. Cable: Digbrocast – L.P: Dir. Gen: Zahur Azar, T.Pk. SQA, C.S.P. Dept. Dir. Gen (II): S. A. Hafeez. Dir. of Liaison: S. M. Tahir. Dir. Prgr. Planning: M. Naseem-uz-Zafar. Dir. of Educ. Broadc: M. Qureshi. Dir. of Music: Tajuddin. Dep. Chief Eng. Planning: M. G. Baig. Adm. Officer: M. H. Shah.

2nd ADDR: 73-Block, Pak-Secretariat, Karachi – L.P: Chief Eng: B. Ahmed. Dept. Chief Eng. I: Sadiq Shah. Dept. Chief Eng. II: M. A. Rahman. Inst. Eng: Irfanullah. Maint. Eng: Sajid Hasan.

3rd ADDR: Ferozsons Bldg, Rawalpindi – L.P: Dept. Dir. Gen: A. Nasri. O.S.D: K. G. Ali. Dir. Listeners' Research: S. Haider. Dir. of Adm: A. A. Hanfi.

STATIONS:

Medium Waves:

	kc	m	kW		kc	m	kW
Peshawar	580	517.2		Rangpur	1050	285.7	10
Lahore I	630	476.2	100	Lahore II	1090	285.7	10
Dacca II	690	435.1	100	Sylhet	1140	263.2	2
Quetta	750	400.0		Rawalpindi	1150	260.8	10
Karachi I	830	361.4	10	Dacca I	1170	256.4	5
Chittagong	870	344.8	10	Rajshahi	1080	277.7	10
Hyderabad	1010	297.0	10				

In addition to the freq's listed above exp. tr's are given from time to time on the following freq's registered for Pakistan: 570, 640, 790, 1030, 1050, 1100, 1160, 1210, 1260, 1280, 1340, 1380, 1410, 1430, 1450 and 1510kc.

Short Waves: Karachi: II/III=50kW, IV/V=10kW.

kc	m	kc	m	kc	m	kc	m
2420	124.00	7200	41.67	9755	30.76	15255	19.67
3395	88.37	7225	41.52	11650	25.75	15270	19.65
3915	76.63	7263	41.30	11672	25.71	15275	19.64
3945	76.05	7270	41 26	11725	25.59	15285	19.63
3955	75.85	7275	41.24	11730	25.58	15325	19.58
4807	62.41	7280	41.21	11740	25.55	15335	19.56
4895	61.29	7290	41.15	11770	25.49	15360	19.53
4910	61.10	7295	41.12	11795	25.43	17710	16.94
4935	60.79	9484	31.63	11800	25.42	17715	16.93
4980	60.25	9545	31.43	11810	25.40	17720	16.93
5980	50.17	9560	31.38	11845	25.33	17745	16.91
5990	50.08	9595	31.27	11875	25.26	17750	16.90
6035	49.71	9600	31.25	11885	25.24	17755	16.90
6070	49.42	9614	31.20	11910	25.19	17760	16.89
6075	49.38	9630	31.15	11914	25.19	17770	16.88
6235	48.12	9640	31.12	11920	25.17	17835	16.82
6245	48.04	9645	31.10	15135	19.82	21570	13.91
7010	42.80	9695	30.94	15145	19.81	21580	13.90
7096	42.27	9705	30.91	15155	19.80	21590	13.90
7130	42.08	9737	30.81	15160	19.79	21630	13.87
7150	41.96	9740	30.80	15195	19.74	21690	13.83
7160	41.90	9750	30.77	15205	19.73		

Dacca II: 7.5kW, Dacca III: 10kW.

kc	m	kc	m	kc	m	kc	m
2350	127.66	6070	49.42	9605	31.23	15335	19.56
3325	90.23	6075	49.38	9614	31.20	15550	19.29
3950	75.95	6090	49.26	9615	31.20	17630	17.02
3955	75.86	6112	49.08	9645	31.10	17640	17.00
3965	75.66	6120	49.02	9695	30.94	17710	16.94
3985	75.28	7020	42.72	11610	25.67	17720	16.93
4790	62.62	7140	42.01	11725	25.59	17730	16.92
4807	62.41	7150	41.90	11730	25.58	17835	16.82
5035	59.58	7155	41.92	11885	25.24	17890	16.77
5970	50.25	7225	41.52	11890	25.23	21465	13.98
5980	50.17	7250	41.38	15160	19.79	21630	13.87
5995	50.04	7263	41.30	15265	19.66	21685	13.83
6015	49.88	7278	41.22	15270	19.65		
6035	49.71	7284	41.19	15285	19.63		

Lahore II: 1kW.

kc	m	kc	m	kc	m	kc	m
2400	125.00	4785	62.70	6075	49.38	9645	31.10
3335	89.96	4807	62.41	6138	48.88	11800	25.42
3395	88.35	6025	49.79	7225	41.52	11840	25.34
3915	76.63	6030	49.75	7270	41.27		
3950	75.95	6065	49.46	7284	41.19		

RADIO MALAYSIA

Federal House P.O. BOX 1074–Kuala Lumpur

Telephone: 23551/5

Cables: Broadcasts Kuala Lumpur

Ini-Lah SUARA MALAYSIA!

THE VOICE OF MALAYSIA

informs - entertains - educates

OVERSEAS SERVICE

49 metres (6100, 6110, 6175 kc)
42 metres (7110 kc)
31 metres (9750 kc)
25 metres (11900 kc)

Language	GMT	kc	News
Morning:			
English	22.45–23.15	6105, 6175	23.00
		7110, 11900	
Indonesian	23.15–00.15	6100, 6175	23.30
Mandarin	00.30–01.00	7110, 9750	00.31
Indonesian	01.00–02.00 (Sun)	11900	01.30
Afternoon:			
Indonesian	09.00–11.00	6175, 7110	09.01
		9750	10.45
Mandarin	10.00–11.00	6110, 11900	10.15
English	11.15–12.15	6100, 6175	11.30
		7110, 11900	
Evening:			
Indonesian	12.30–16.30	6110, 6175	12 45
		7110, 9750	14.00
		11900	15.45

Peshawar II: 10kW.

kc	m	kc	m
2320	129.31	4915	61.04
3241	92.56	5990	50.08
3935	76.24	6120	49.02
3940	76.15	7130	42.07
3965	75.67	9600	31.25

Rawalpindi II: 10kW.

kc	m	kc	m
2460	122.00	6015	49.88
3259	92.53	7110	42.19
3945	76.05	9730	30.83
4895	61.28	9755	30.75

Quetta II: 10kW.

kc	m	kc	m	kc	m	kc	m
3270	91.74	3915	76.64	5970	50.25	5985	50.16
3870	77.51	4915	61.04	5980	50.17	7110	42.19

MEDIUM WAVE PROGRAMMES:

Karachi (Urdu, English, Bengali): 01.30–03.30 (Sun 01.30–10.30), 06.30–10.30, 11.30–23.00.

Lahore (Urdu, English, Punjabi): 01.30–03.30 (Sun 01.30–05.00), 06.30–08.30, 12.00–17.30.

Rawalpindi (Urdu, English, Pothoari): 01.30–03.30 (Sun 01.30–05.30), 07.00–08.30, 11.30–17.00.

Peshawar (Urdu, English, Pushto): 01.30–03.30 (Fri, Sun 01.30–04.00), 06.30–08.30, 13.30–17.00.

Hyderabad (Urdu, English & Sindhi): 01.30–03.30 (Sun 01.30–05.30), 07.00–08.30, 12.00–17.00.

Quetta (Urdu, Balochi, Pushto, English): 01.30–03.30 (Sun 04.30), 07.00(Sun 06.00)–08.30, 12.00(Sun 11.30)–17.30.

Dacca (Urdu, Bengali, English): 01.00–03.00 (Fri, Sun 03.30), 07.00 (Sun 06.45, Fri 07.30)–09.00, 11.00–16.30.

Rajshahi, Chittagong (Urdu, Bengali, English): 01.00–03.00(Sun, Fri 03.30), 07.00(Fri 07.30, Sun 06.45)–09.00, 11.00–16.30.

Sylhet: 11.00–16.30.

Abbreviations: K=Karachi, L=Lahore, R=Rawalpindi, P=Peshawar, Q=Quetta, D=Dacca, H=Hyderabad, Ra=Rajshahi, C=Chittagong, S=Sylhet.

Nat. Music is broadc. daily from each st. of R. Pakistan on the chunks *other than those reserved for fixed point items*, spoken word items and N.

NEWS: English (Nat): 02.15–02.30, 08.10–08.20, 12.10–12.20, 15.00–15.15 K, L, R, P, H, D, Ra, C (at 12.10 also S, at 15.00 also Q, S). **English (Local)**: 12.25 L, R, 13.20 K.
Urdu (Nat): 02.00–02.15, 08.00–08.10, 12.10, 14.45–15.00 K, L, R, P, H, Q (at 02.00 & 14.45 also D, Ra, C; at 14.45 also S). **Urdu (Local)**: 12.10 Q; 12.20 L, R; 12.30 P; 12.55 D; 13.15 K.
Bengali (Nat): 01.45–02.00 K, R, Ra, C; 08.00–08.10 D, Ra, C; 12.00 D, Ra, C, S; 14.00 K, D, Ra, C; S. **Bengali (Local)**: 12.50 D.
Pushto (Nat): 02.50–03.00 P, Q; 08.20–08.30 P; 12.20–12.30 P, Q.
Pushto (Local): 12.30 Q; 13.45 P – **Sindhi**: 02.50–03.00, 12.20–12.30 H.
Balochi: 03.00–03.10, 13.00–13.15 Q – **Kashmiri**: 12.35–12.45 K.

SHORT WAVE PROGRAMMES:

Karachi to We. Pakistan: 01.30–03.30 on 4980/6070kc (Sun 03.45–07.00 on 9645/7275kc), 07.00–10.30 on 9645/7275kc, 12.00–12.30 on 6245/7130kc, 12.35–13.00 on 9750/7010kc, 13.00–13.10 on 6245/7130kc, 14.15–15.45 on 6245/7010kc.

01.30–01.45	Rlg. Prgr.	12.00–12.10	N. in Urdu
01.45–02.00	N. in Bengali	12.10–12.20	**N. in English**
02.00–02.15	*N. in Urdu*	12.20–12.30	*N. in Pushto*
02.15–02.30	**N. in English**	12.35–12.45	N. in Kashmiri
02.30–02.50	Rlg. Prgr.	12.45–13.00	Karachi Prgr.
02.50–03.00	N. in Pushto	13.00–13.10	N. in Balochi
03.00–03.10	N. in Balochi	13.10–14.00	Karachi Prgr.
03.10–03.30	Karachi Prgr.	14.00–14.15	N. in Bengali
07.00–08.00	Comm. Sce.	14.15–14.45	Nat. Hookup
08.00–08.10	*N. in Urdu*	*14.45–15.00*	*N. in Urdu*
08.10–08.20	**N. in English**	15.00–15.15	**N. in English**
08.20–08.30	N. in Pushto	15.15–15.45	Karachi Prgr.
08.30–10.30	Comm. Sce.		

Karachi to Ea. Pakistan: 01.45–02.30 on 11885/9645kc (Sun 05.00–07.00 on 21590/17760kc), 07.00–08.20 on 21590/17760kc, 12.00–12.20 on 21590/17760kc, 14.00–15.45 on 9820/11672kc.

01.45–02.00	N. in Bengali	12.00–12.10	N. in Bengali
02.00–02.15	N. in Urdu	12.10–12.20	**N. in English**
02.15–02.30	**N. in English**	14.00–14.15	N. in Bengali
06.30–07.00	Comm. Sce. (Sun)	14.15–14.45	Nat. Hookup
07.00–08.00	Comm. Sce.	14.45–15.00	N. in Urdu
08.00–08.10	N. in Bengali	15.00–15.15	**N. in English**
08.10–08.20	**N. in English**	15.15–15.45	Karachi Prgr.

ZONAL SERVICES:

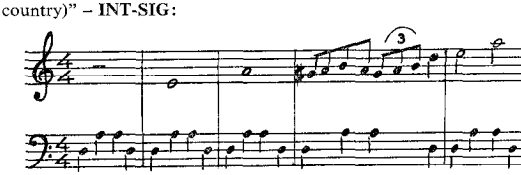
Lahore	kc	Dacca	kc	Dacca to We. Pakistan	kc
01.30–03.30	3950	01.00–03.00	6015	01.00–03.00	9690
06.30–08.30	7225	07.00–09.00	7250	07.00–09.00	21685
12.00–13.45	6065	11.00–13.00	7020	11.00–13.00	17630
14.00–17.30	3950	13.15–16.30	3985	13.45–16.30	9435

Rawalpindi: 10.45–11.45 on 6015kc – **Peshawar**: 01.30–03.30 on 3940 kc, 07.00–08.30 on 7130kc, 12.00–14.00 on 6125kc, 14.15–17.30 on 4910kc – **Quetta**: 01.30–03.30 on 3915kc, 07.00–08.30 on 7110kc, 12.00–14.00 on 5980kc, 14.15–17.30 on 3870kc.

EXTERNAL SERVICES

Times	Sce.	kc	Language
00.30–01.15	So.Ea.Asia	9645/11885	English
03.45–04.45	So.Ea.Africa	11885/17745	Urdu/Gujrati
08.30–08.45	GOS (Far East)	17760/21590	English
08.45–09.30	*Indonesian*	*17760/21590*	*Indonesian*
09.45–10.30	Burmese	17760/21590	Burmese
10.45–11.45	So.Asia	17760/11875	Urdu
13.35–13.50	GOS (Mid.East)	21590/11672	
		15100/9820	English
16.00–17.15	Afghan/Persian	7060/5985	Afghan/Persian
16.00–16.45	Iranian	6235/7290	Persian
17.30–18.30	*Arabic*	*15325/11672*	*Arabic*
18.45–19.30	Turkish	9740/11672	Turkish
19.45–20.30	U.K.	9615/11672	English

ANN: E: "This is R. Pakistan, Calling listeners in (name of target country)" – **INT-SIG**:



V. by QSL-card – **PUB**: Monthly "Pakistan Calling" in English; Urdu, Bengali (fortnightly). Monthly in Arabic, Persian, Burmese.

PHILIPPINES

L.T: GMT+8 h – Pr.L: English, Tagalog, Ilocano, Visayan.

RADIO CONTROL OFFICE, *Dept. of Public Work and Communications*, Manila – L.P: Dir: R. M. San Andres.

STATIONS: **Educ. and Gov**: 3), 6), 31). **Rlg**: 1), 4), 14). Other st's priv. comm. 2) is Gov. owned, but broadc. comm. prgr's.

Shortwaves: Location Manila exc. where indicated.

Call	kc	m	kW	Name & h of tr.
1) DYB4*3277		91.55	0.1	Silliman Univ, Dumaguete City
2) *DUB4*	*3286*	*91.29*	*5*	*Philippine Broadc. Sce: 09.30–11.30*
3) DZCA	3305	90.77	1	Nat. Civil Defense Adm: 08.00–11.00
4) DZB2	3345	89.68	2	Far East Broadc. Co: 21.00–15.00
5) DXB3	3945	76.05	0.5	Notre Dame Broadc. Corp. Cotabato City: 22.00–14.00
6) DZB6	4945	60.67	0.5	Nat. Teachers College: W 09.30–11.00, Sun 01.00–03.00
3) DZCA	5970	50.25	1	Nat. Civil Defense Adm: 08.00–11.00
4) DZH6	6030	49.75	2	Far East Broadc. Co: 21.00–17.30
1) DYH4	6055	49.55	0.25	Silliman Univ. Dumaguete City: 21.00–14.00
7) DZI7	6080	49.34	0.25	Voice of Manila: 21.00–16.00
4) DZF4	6120	49.02	50	Far East Broadc. Co: 21.30–23.15
2) DUH2	*6170*	*48.62*	*10*	*Philipp. Broadc. Sce: 09.00–11.30*
8) DUH9	7160	41.90	1	Univ. of the Philippines, Quezon City: 09.00–13.00
4) DZL9	7230	41.49	3	Far East Broadc. Co: 22.00–00.30, 13.30–17.30
9) DXH2	7280	41.21	0.5	Mindanao Broadc. System, Davao City: 23.00–08.00
4) DZH7	9505	31.56	50	Far East Broadc. Co: 12.45–16.30
1) DYH5	9630	31.15	50	SEARV, Dumaguete City
10)DZH5	9690	30.96	0.25	R. Veritas, Manila: 08.00–14.00
4) DZF5	9715	30.89	10/2	Far East Broadc. Co: 21.30–17.30, Sun 03.00–08.30
4) DZF6	11740	25.55	2	Far East Broadc. Co: 21.30–03.00, Sun 03.00–08.30
4) DZH8	11855	25.31	50	Far East Broadc. Co: 09.00(Sun 08.30)–12.45, 16.30–17.30
1) DYH6	11875	25.26	50	SEARV, Dumaguete City
4) –	11890	25.23	2	Far East Broadc. Co: 08.30–17.30
4) DZF2	11920	25.17	50	Far East Broadc. Co: 10.30–12.45
4) DZH9	15230	19.70	2/10	Far East Broadc. Co: 09.00–14.00
4) DZH9	15300	19.60	2/10	Far East Broadc. Co: 22.00–03.00 (Sun *08.30*), *08.30–09.00*
4) DZF3	15385	19.50	50/3	Far East Broadc. Co: 23.30–03.00
4) –	15390	19.49	50	Far East Broadc. Co: 03.00–08.00 (Sun only)
1) DYH7	15420	19.46	50	SEARV, Dumaguete City
4) –	15440	19.43	10/3	Far East Broadc. Co: 01.00–03.00, 08.30–13.00
1) DYH8	17715	16.93	50	SEARV, Dumaguete City
4) DZI6	17810	16.84	2	Far East Broadc. Co: W 22.00–12.00 Sun 03.00–08.30
1) DYH9	21470	13.97	50	SEARV, Dumaguete City

Medium Waves: ° also sw.

Call	kc	kW	Call	kc	kW	Call	kc	kW
11) DZAA	540	0.5	10) DZRV	°860	10	19) DYOG	1210	1
3) DZCA	°550	1	20) DYQL	870	1	2) DXSM	1220	1
12) DZCI	560	1	15) DXVM	870	1	19) DZAL	1230	1
13) DYCB	570	10	5) DXMS	°880	1	35) DZLT	1240	5
14) DZBB	580	10	14) DZXX	890	1	7g) DZHF	1250	1
15) DXDC	590	1	9) DXUM	900	1	36) DYVM	1260	0.5
7c) DYRC	°600	5	11) DZAD	900	0.5	26) DZBW	1270	0.5
16) DZAX	600	0.5	19) DYHF	910	1	19) DYRI	1280	5
17) DZAQ	620	50	31) DXMT	930	10	16) DZBJ	1280	5
15) DXBC	630	1	31) DZTD	940	5	32) DZEB	1290	1
18) DXAW	640	10	1) DYCR	°940	1	2) DXSO	1300	1
7a) DZRH	°650	10	20) DZXL	960	50	16) DZRL	1300	1
19) DYBC	660	1	7f) DYMB	970	1	19) DYML	1310	1
20) DYPL	670	1	27) DZRC	970	1	19) DYRK	1320	1
4) DZAS	°680	10	32) DXJC	980	0.5	32) DXJJ	1330	0.5
21) DXSS	680	1	13) DZYY	980	1	37) DZYG	1330	1
17) DZXN	690	1	26) DXCE	980	0.5	17) DZMM	1340	1
22) DXLM	690	0.5	15) DZAH	990	0.5	2) DXRP	1350	1
16) DZTG	690	1	17) DZBC	1000	5	38) DZSG	1350	1
23) DXLY	700	5	18) DXJW	1010	1	38) DZYS	1350	1
2) DZFM	°710	10	14) DYSS	1020	1	39) DYRL	1360	1
15) DXIC	720	1	4) DZFE	°1030	1	38) DZXQ	1360	5
24) DZGB	720	1	7h) DYMS	1040	0.5	32) DZBS	1370	1
17) DZRD	730	1	17) DZRI	1040	5	31) DZTM	1380	10
5) DXND	730	0.5	2) DZRP	1050	1	40) DXMR	1390	1
25) DYBR	730	1	26) DZGT	1050	0.5	20) DYXL	1400	5
9) DXMC	°740	5	4) DXKI	1060	1	2) DYMR	1410	1
26) DZQR	740	0.5	17) DZRB	1060	5	8) DZUP	°1410	1
17) DYCU	750	10	19) DYWX	1070	1	34) DYRS	1420	1
27) DZCV	750	1	31) DZWS	1070	10	6) DZTC	1430	1
27) DXGS	750	1	33) DYVA	1080	1	14) DYOO	1440	1
7b) DZMB	°760	1	9) DXCM	1090	1	15) DXVM	1450	0.5
26) DZJC	770	1	31) DZMT	1100	10	41) DZBU	1460	10
28) DYRR	770	1	32) DZVS	1110	0.5	9) DXMM	1470	0.5
15) DXCC	780	1	34) DYRM	1120	1	42) DZBD	1480	0.5
29) DZAB	780	1	27) DZXT	1120	1	19) DZGK	1480	1
7e) DYVL	790	0.5	19) DYOR	1130	1	16) DXOG	1490	1
26) DZVV	790	1	15) DZHP	1130	10	22) DZAF	1500	0.5
7d) DZPI	800	1	34) DYRD	1150	1	2) DZCP	1500	1
9) DXMM	810	1	13) DZMY	1160	1	2) DZEQ	1510	1
7c) DYBU	°820	1	19) DYLL	1170	1	14) DYMR	1510	5
20) DZQL	830	5	18) DXWW	1180	1	14) DZEG	1510	1
1) DYSR	°840	10	2) DZRM	1190	5	43) DZFU	1580	0.5
27) DZGE	850	5	34) DYRH	1200	1	36) DYDR	1590	1
30) DZST	860	1	19) DYRM	1200	1	1) DZCH	1600	10

Short Waves:

1) **National Council of Churches Broadcasting Network**

Addr: DYSR (Head Office of Netw), Dumaguete City; DZCH, P.O. Box 4148, Manila – **L.P:** Dir. Gen: G. Ralph Milton (Assoc. Dir. for Radio & TV, Mass Media Commission). St. Mgr. & Dir. Tec. (DYSR/DYCR): B. Magdamo. St. Mgr (DZCH): R. Pepito. – **D.Prgr:** On DYSR/DYH4: 21.00–14.00. **N. in English:** 22.45, 04.15(Sun), 12.00. **N. in Visayan:** 22.00 10.00; On DZCH: 09.00–14.00. **N. in English:** 13.45, **N. in Tagalog:** 11.30. On DYCR (The Fine Music Station): D.06.00–09.00 simultaneously with DYH4. **Ann:** "This is the N.C.C.B.N. the National Council of Churches Broadc. Network. You are listening to DYSR & DYH4 in Dumaguete (or DZCH & DZCH-FM) in Manila" – **V.** by letter & prgr.schedule. Re. in E (written with signal strength indications preferred).

1) **South East Asia Radio Voice (SEARV) (Rlg).**

Fi: Operations are underwritten by protestant churches of the National Council of Churches in the US and by special gifts from the churches of the National Councils in the participating Asian Countries. **Addr:** Dumaguete City, Philippines. **Cable:** "Care DYSR" – **Studios:** 10 Salemba, Djakarta IV/3, Indonesia; 82nd Street, Mandalay, Burma; 14 Pramuan, Bangkok, Thailand; 191 Prince Edward Road, Kowloon, Hongkong; 116, Sec 1, Taichung-Kong Rd, Taichung, Taiwan – **L.P:** Exec. Dir: C. Bernardez. Dir's: S. Lader (Burma), J. Haurissa (Indonesia), J. R. Sams (Thailand), T. W. Lung (Hongkong).

Stations: Dumaguete City: see above.

D.Prgr's: Tests scheduled to start by mid 1966 followed by regular broadc. **V.** by QSL-card. Reports to be sent to C. Bernardez, SEARV, Dumaguete City, Philippines, Recordings accepted.

2) 5th Floor, GSIS Bldg. Manila. **Te:** 3-24-15. **Cable:** Philcast – **Fi:** By State and adv – **L.P:** Gen. Mgr: F. Trinidad. Adm. Officer: P. Prado. Head Tr's Dept: J. Dy. Head Studio Dept: L. Quintos. Head Prgr. Dept: M. Aguila – **D. Prgrs:** 21.00–15.00. **N:** 21.00 (Filipino), 23.30(E), 00.00(Filipino), 00.30(E), 02.30(E), 03.00(Chinese), 04.00(E), 04.05(Filipino), 05.00(E), 08.05(Filipino), 09.00(E), 10.05 (Filipino), 10.30(E), 15.00.

Relay St's: DZEQ, Baguio City; DYMR, Cebu City; DXRP, Davao City; DXSM, Jolo; DXSO, Marawi City – **Ann:** "This is PBS, the Philippine Broadc. Sce. You are tuned to st's DZFM 710kc DZCP 1500kc, 105.5Mc FM, DUH2 6170kc in Manila, 1510kc in Baguio, 1410kc in Cebu, 1350kc in Davao, 1220kc in Jolo, 1300kc in Marawi City" – **V.** by letter. Rp. appreciated. Recorded re. in English appreciated – **Pub:** Prgr.schedule free – **F.Pl:** Further 1 kW relay st's. Overseas Broadcast Dept.

3) Independence Grandstand, Luneta, Manila – **Ann:** "You are listening to st. DZCA owned and operated by the National Civil Defense Adm. of the Philippines" **V.** by letter. Re. in E.

4) **FAR EAST BROADCASTING COMPANY.**

Fi: FEBC is a non-profit, non-comm. missionary organization being sustained by free-will gifts and offerings from interested friends – **Addr:** Box 2041. Manila. **Te:** 2-1057. **Cable:** Febcom – **L.P:** Dir: R. A. Reynolds. Dir. Overseas Prgr's: E. Parsons.

PHILIPPINE SERVICE: 20.55–15.00 on 680/3345/6030kc; 21.00 Philippine dialects, 21.45 **English**, 22.30 Tagalog, 23.00 **English**, 01.15 Tagalog, 02.40 **English**, 04.30 Chinese, 05.30 **English**, 09.00 Tagalog & Philippines dialects, 11.00–15.00 **English.**

Manila's Fine Music Station: 21.55–15.00 on 1030kc (all English). Shortwave 22.00–23.30 on 15300/17810kc, 09.00–11.30 on 15440/17810kc, 14.15–15.00 with 680kc (stereophonic broadc).

Southern Philippine St. DXKI, Marbel, Cotabato: 21.30–23.30 **English,** 08.00–09.00 Phil. dialects, 09.00–10.30 Tagalog, 10.30–11.30 Phil. dialects, 11.30–13.00 **English.**

OVERSEAS SERVICE:

Abbreviations: I=China; II=Malaysia/Indonesia; III=Australia/NZ/New Guinea; IV=Japan; V=Thailand/Laos/Cambodia/Vietnam; VI=India/Pakistan/Ceylon; VII=USSR; VIII=Europe – a) English; b) Mandarin/Amoy; c) Indonesian; d) Thai/Lao/Burmese; e) Sinhalese; f) Tamil/Hindustani/Telugu/Gujerati/Malayalam; g) Gujerati/Bengali/Tamil/Telugu/Malayalam/Hindi/Tibetan/Nepali; h) Mandarin; i) Russian; j) Amoy/Cantonese; k) Malay; m) Lao/French/Cambodian; n) Mandarin/Cantonese; o) Japanese; p) Thai; q) French; r) Russian; s) Vietnamese.

H. of tr.	Areas	Nov. 65/Oct. 66 (kc)	L	N
21.30–23.15	I	6120/7230/9715	b	
	II	9715/11740	b	
22.00–23.30	III/II/IV	17810/15300	a	
23.30–00.30	III/V/II	17810/*15385/15300	a	23.30
23.30–23.45	II	9715/11740/15300	c	
23.45–00.30	V	9715/11740/15300	d	
01.00–03.00	VI/II	15440/15300	g	

"This is Manila calling"

FAR EAST

BROADCASTING CO., INC.

LISTEN TO FEBC FOR:

★ *The most complete Asian news coverage.*

★ *The finest in music.*

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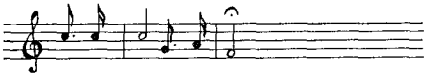
WRITE FOR FREE SCHEDULE

P. O. Box 2041 · Manila, Philippines

H .of tr.	Areas	Nov. 65/Oct. 66 (kc)	L	N
00.30–01.00	VI	15385	e	
00.30–01.00	V	9715/11740	a	
	II	15300/17810	a	
01.00–02.00	V/VI	15385	a	01.30
01.00–02.00	I/V/II	9715/11740/17810	h	
02.00–03.00	V/VI	15385	a	02.55
	IV/V/II	9715/11740/17810	a	
03.00–06.00	V/VI/II	15385/15300/17810	a	
	IV/III	9715/11740	a	04.00
06.00–08.00	**V/VI/II/IV/	15390/15300/17810		
	III	9715/11740	a	06.30
08.30–09.00	IV/V	9715/11890/15440	a	
	II	15300/17810	a	
09.00–11.30	V/II	15440/17810	a	11.00
09.00–10.30	III/VII	11855	a+i	09.00
09.00–10.30	I/V/II	9715/11890/15230	b	
10.30–11.30	I/V/II	9715/11855/11890/15230	j	
10.30–11.45	IV	11920	o	
11.30–12.45	V	11855	d	12.15
11.30–11.45	V/II	9715/11890/15440		
		15230/17810	a	
11.45–13.30	V	9715/11890	s+m	
11.45–12.45	IV/II/V	11920/15230/15440	a	11.45
12.45–13.45	II	11920	k+c	13.40
12.45–14.00	V/VI/II	9505/15230	a	12.55
13.30–16.15	I	6030/7230/9715	n	
	II	11890	n	
14.00–15.30	V/VI	9505	f	
15.30–16.30	V/VI	9505	a	15.30
16.15–17.30	VII	6030/7230/9715/ 11855/11890	r	
17.30–17.40	VIII	6030/7230/9715/ 11855/11890	a	

* to be replaced by 11855kc (Dec-Feb). ** Sun only.

Short Wave Mbg: Mon 09.15 on 11855kc (for Au/NZ), Wed 13.30 on 9505kc (for So. & So.Ea.Asia) – **Musical Almanac** (Prgr. preview, tr-changes, Magazine prgr): Mon–Fri: 23.45–24.00 on 15385kc (to So. & So.Ea.Asia), on 17810kc (to Au/NZ) – **"This is the Philippines"**: Fri 09.15 on 11855kc (for Au/NZ), Tues 13.30 on 9505kc (for So. & So.Ea.Asia) – **Cowboy Joe** (half-h prgr. of cowboy music): Tues 09.15 on 11855kc (for Au/NZ), Wed 02.00 on 9715/11740/15385/17810kc (for So. & Ea.Asia/Japan), Sat 12.00 on 11920kc (for Japan, So.Asia). **ANN:** "This is the English Sce. of the FEBC transmitting from the Philippines (quarterly). This is the English Sce. of the FEBC operating in the (metre bands)" (halfhourly). This is Manila calling. The English Sce. of the FEBC operating at (give freq's). The time is..." (hourly). **Int-Sig:** Part of hymn "Jesus Saves" played on vibraharp (bells).



V. by QSL-card and letter. Rp. preferred (3 IRCs for Air-mail) – **Pub:** Prgr.schedule free on request. "Signal" (every two months).

5) Cotabato City, Cotabato.
6) National Teachers College, P.O. Box 3032, Manila – **Ann:** E: "This is the Voice of Education" – V. by letter.
7) **MANILA BROADCASTING COMPANY** – **Addr:** Radio Center, 964 Taft Avenue, Manila. **Te:** 36451. **Cable:** "Manbroadco" – **L.P:** Gen. Mgr: Ira Davis – a) **The Voice of Philippines. D.Prgr:** 21.00–16.00 – b) **The Voice of Manila. D.Prgr:** 21.00–16.00 – c) **Cebu Broadcasting Company:** ("Voice of Cebu" & "Radio Cebu"). **Addr:** Lim Bon Fing Bldg, Cebu City. **D.Prgr:** 21.00–16.00 – d) **R. Philippines. D.Prgr:** 22.00–14.00 – e) **The Voice of Leyte. Addr:** Tacloban, Leyte. **D.Prgr:** 21.00–15.00 – f) **Metropolitan Broadc. Co,** Cebu City – g) **Your Business Station,** Navotas, Rizal. **D.Prgr:** 21.00–16.00 – h) **MBC,** Palo, Leyte. **D.Prgr:** 21.00–15.00. V. all st's verify by QSL-card. Rp.
8) Dept. of Speech and Drama. Univ. of the Philippines, Diliman, Quezon City – **L P:** Dir. Gen: C. Fonacier. St. Mgr: M. Albarracin Jr. Dir. Tec: F. Lapueba – **Lessons:** Mon 10.00 (Spanish), Tues 10.00 (French), Thurs 10.00 (German) – **Ann:** "You are listening to DZUP, the R. st. of the State Univ. broadc. from Diliman, Quezon City, 1410kc on your radio dial, 7.16Mc in the sw-band" – **Int-Sig:** electric chimes E-C (mi-do) – V. by QSL-card or letter.
9) 3rd Floor, DBP Bldg. C. M. Recto St, Davao City. **Te:** 252 – **L.P:** Dir. Gen: G. E. Torres – **Home Sce:** DXMC/DXUM: 21.00–15.00 in English, Tagalog, Cebuano; DXMM: 21.00–14.00 on English; DXH2: 23.00–08.00 in English; DXCM (Cotabato City): 21.00–15.00 in English, Tagalog, Muslim; DXRZ (Zamboanga City): 21.00–14.00 in English, Tagalog, Spanish, Chabacano, Muslim – **Ann:** "MBS-Mindanao Broadc. System, DXMC-Davao, DXUM-Davao, DX double M dial 810" – **Int-Sig:** DXMC: A gong (musical instrument used by Moros, natives of Mindanao) – V. by letter.
10) 1000 Gen. Solano Str, San Miguel, Manila. (Studio: Univ. of Santo Tomas Bldg). **Te:** 41867 – **L.P:** Ag. St. Mgr. V: Rosales. Dir. Tec: J. O. Rosales – **D.Prgr: N. in English:** Sun 10.15, 11.00, 11.15, W 13.00; **N. in Filipino:** W 10.15 – **Ann:** "You are listening to the Voice of Catholic Philippines DZRV & DZH5, Manila" – V. by QSL-card. Recordings accepted. Prgr.schedule free.

Medium Waves:

11) **Pacific Broadc. System, Inc,** Eden Hotel, Legaspi City. **D.Prgr:** 21.00–15.00 – 12) **R. Station DZCI,** Cabanatuan.
13) **Monserrat Broadc. System,** CBN Bldg, Aduana Str, Intramuros, Manila. **D.Prgr:** DZMY (Angono, Rizal): 21.00–17.00. DZYY-FM (Minala): 24 h.
14) **Republic Broadc. System,** E. de los Santos Ave, Diliman, Quezon City. **Te:** 700221. **Cable:** "Bobstew". **Home Sce. in English:** DZBB 21.00–16.00. DZXX 20.00–16.00. DYSS/DYOO 21.00–15.00. **Ann:** "This is R.B.S. the Republic Broadc. System... your station is DZBB (or DZXX) broadc. from Quezon City". V. by letter. Re. in E.
15) **R. Mindanao:** Cagayan de Oro City. **D.Prgr:** 22.00–14.00 in English Visayan on DXBC (Butuan City), DXIC (Iligan City), DXCC/DXVM (Cagayan de Oro City) – 16) **R. Philippines Network Inc,** 1195 Florida St, Manila.
17) P.O. Box 1344, Manila. **Te:** 84684. **Home Sce. in English & Tagalog:** 21.00–16.00. **Ann:** "This is ABS, largest Philippine Network". V. by QSL-card. Re. in E (DZAQ/DZBC: Manila. DZRI: Dagupan. DZRB: Naga. DYCB: Cebu).
18) **Pioneer Station,** P.O. Box 121, Davao City. **D.Prgr** in English, Visayan: DXWW (Davao City): 22.00–15.00. DXJW (Zamboanga City): 22.00–14.00. DXAW (Davao City): 21.00–16.00.
19) **Visayan Broadc. System,** P.O. Box 41, Iloilo City. **D.Prgr:** DYBC (Cebu City): 21.00–16.00. DYHF (Iloilo City): 21.00–15.00. DYLL (Tacloban): 21.00–16.00. DYRI (Iloilo City): 21.00–16.00. DYWK (Bacolod City)/DYOR (Ormoc City)/DYRM (Dumaguete City)/DYOG (Calbaygo City)/DZAL (Legaspi City)/DYML (Tagbilaran, Bohol)/DYRX (Rovas City): 21.00–16.00.
20) **Chronicle Broadc. Net,** CBN Bldg, Aduana Str, Manila. **Te:** 30061. **Cable:** "CBN". **D.Prgr:** DYPL (Iloilo City)/DYQL (Bacolod City): 21.00–16.00. DZXL (Angono, Rizal): 21.00–15.00. DZQL (Angono, Rizal) 24 h. DYXL (Bacolod City): 21.00–16.00. DYZL-FM (Manila): 21.00–15.00. DXJW: 22.00–14.00.
21) **Surigao Broadc. Net,** Surigao – 22) **R. St. DXLM,** Marawi City.
23) **Manila Times Publishing Co,** Manila – 24) **R. Station DZGB,** Legaspi City – 25) **East Visayan Net,** Tacloban City – 26) **Liberty Broadc. Network,** Dagupan City – 27) **Filippines Broadc. Network,** P.O. Box 23, Naga City, Camarines Sur. **D.Prgr:** 23.00–14.00 – 28) **R. St. DYRR,** Ormoc – 29) **R. Station DZAB,** 734 Laguna Str, Manila.
30) **Voice of the Catholic, Philippines,** Univ. of Santo Tomas, Manila.
31) **Associated Broadc. Corporation,** Florentino Torres Str, Manila. **Te:** 37301. **Home Sce:** DZMT 24 h, other st's 22.00–16.00. **N. in English:** Every h on the h. **Ann** "DZMT, first with the news, the finest in music". V. by letter. Recordings accepted. Rp.
32) **Oceanic Wireless Network, Inc.** Alliance Bldg. Rosario, Manila. **D.Prgr:** 22.00–16.00 on DXJC (Jolo, Sulo), DZVS (Sogorson), DZEB (Naga City), DZRL (Laoag), DXJJ (Zamboanga City), DZBS (Baguio City), DXOC (Ozamis City) – 33) **Agusan Broadc. Co,** Butuan City. **D.Prgr:** 21.00–16.00 – 34) **Allied Broadc. Net,** Dumaguete City – 35) **Luzon Broadc. Co,** Luzonian Colleges, Lucena City. **D. Prgr:** in Tagalog, English: 21.00–16.00. V. by letter. Rp – 36) **Central Philippines Broadc. Co,** 148 Colon Str, Cebu City.
37) **Vanguard Radio Net,** Cabanatuan – 38) **DZSG Sta. Catalina,** DZYS Santiago, Isabela, DZYQ Batangas – 39) **Bacolod Broadc. System,** Lacson Str. Bacolod City. V. by QSL-card or letter.
40) **Mindanao Broadc. Co.** Marawi City. **D.Prgr:** 22.00–13.00.
41) **Manily Daily Bulletin,** Shurdut Bldg, Intramuros, Manila. **Te:** 45431. **D.Prgr** .in Tagalog: 21.00–16.00. V. by letter – 42) **R. Station DZBD,** Manila – 43) **Feati University,** Feati Univ. Bldg, Sta. Cruz, Manila. **D.Prgr. in English, Tagalog:** 01.00–13.30.

VOICE OF AMERICA RADIO STATION PHILIPPINES

ADDR: Voice of America, Washington 25, D.C. USA.
STATIONS: Medium Waves: Malolos A: 920kc 326m 50kW: 11.00–16.30, 22.00–00.30 – Poro A: 1140kc 263m 1000kW: 12.00–16.30.
Short Wave: Malolos 7.5/50kW: 21.30–02.30, 09.00–16.30.

kc	m	kc	m	kc	m	kc	m
6065	49.46	9655	31.07	11875	25.26	15410	19.47
7275	41.24	11735	25.56	15165	19.78	17765	16.89
9580	31.32	11805	25.41	15175	19.77		

Poro 35/50/100kW: 21.30–02.30, 09.00–16.30.

kc	m	kc	m	kc	m	kc	m
6125	48.98	9665	31.04	11965	25.07	15410	19.47
6185	48.50	9700	30.93	15155	19.80	17705	16.94
7135	42.05	11805	25.41	15185	19.76	17720	16.93
7175	41.81	11845	25.33	15210	19.72	17735	16.92
7275	41.24	11860	25.31	15250	19.67	17830	16.83
9530	31.48	11865	25.28	15345	19.55	21570	13.91
9560	31.38	11875	25.26	15360	19.53		
9590	31.28	11930	25.15	15395	19.49		

D.PRGR: Medium Wave 920kc: 11.00–16.30, 22.00–00.30 English. Medium Wave 1140kc: 12.00–13.00 Vietnamese, 13.00–14.00 Cambodian, 14.00–14.30 Thai, 14.30–16.00 Vietnamese, 16.00–16.30 English – **Short Wave:** See USA – **ANN:** "This is the Voice of America Relay st. in the Philippines" – **INT-SIG:** 20 second variations of "Columbia, the Gem of the Ocean" – V. by QSL-card.

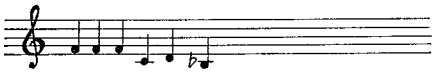
ARMED FORCES RADIO & TV SCE: see USA.

RYUKYU ISLANDS

L.T: GMT+9 h – **Pr.L:** Japanese, Okinawan, English.

RYUKYUS BROADCASTING CORPORATION (Comm.)
ADDR: CPO Box 4, Naha, Okinawa. **Te:** 8-4161 – **L.P:** Pres: S. Zayasu. Man. Dir: S. Hirakawa. Dir. Adm: T. Sakai. Dir. Sales Dept: T. Motomura. Dir. Eng. Dept: S. Yamazato. Mgr (KSBK): Y. Nakamura.
HOME SCE: KSAR 740kc 5kW: 20.00–16.00 Japanese
KSBK 880kc 3kW: 20.00–16.00 English – **N:** Every h on the h.
ANN: KSAR: "RBC" or "Ryukyu hoso desu" every 15 or 30 min's. KSBK: "Radio 880" – V. by QSL-card.
Nippon Electric Co. Ltd, Japan, delivered 5kW mw-tr.

FAR EAST BROADCASTING CO. (Non-Comm, missionary)
FI: By freewill gifts – **ADDR:** CPO Box 55, Naha. Cable: Febcomb **Te:** 78208 – **L.P:** Dir: J. C. Lentz. Dir. Tec: D. Hudson. Dir. Prgr's: T. Nash (KSAB), Matsukawa (KSDX), R. Kaufman (KSBU).
STATIONS: KSAB 1020kc 1kW – KSDX 1250kc 5kW – KSBU 1360kc 100kW.
HOME SCE: KSAB (English): 21.00–14.00. N, Wrp: 21.55, 22.55, 23.55, 00.55, 02.45, 08.45, 11.45 – KSDX (Japanese): 22.00–14.00. N: 22.30, 23.30, 02.30, 03.30, 09.30, 12.30 – KSBU (Chinese): 21.00–06.00 (beamed towards Shanghai).
ANN: Call letters every 15 or 30 min.
INT-SIG: Vibraphone – V. by QSL-card. Rp. preferred.



PUB: Prgr.schedule free.

RADIO OKINAWA CO. LTD. (Comm.)
ADDR: CPO Box 405, Naha, Okinawa. **Te:** 8-5128 – **L.P:** Pres: J. Toma – **STATION:** KSDT 780kc 5kW.
HOME SCE. in Japanese: 20.00–15.00 – **ANN:** "KSDT, ROK" or "R. Okinawa des" at 15 or 30 min. intervals – **INT-SIG:** Chimes or audio tones – V. by QSL-card.
Nippon Electric Co, Japan: 5kW mw-tr.

VOICE OF AMERICA RADIO STATION IN OKINAWA
ADDR: Voice of America, Washington 25, D.C. USA.
STATIONS: Medium Wave: Okinawa-A 1178kc 255m 1000kW: 11.00–16.30.
Short Waves: Okinawa 35/100kW: 09.00–16.30, 21.30–01.00.

kc	m	kc	m	kc	m	kc	m
3940	76.15	6075	49.38	7235	41.47	11715	25.61
5975	50.21	7135	42.05	7240	41.44	11835	25.35
6010	49.92	7175	41.81	9710	30.90	15150	19.80

D.PRGR: Medium Wave: 11.00–14.00 Chinese, 14.00–14.30 Korean, 14.30–16.00 Chinese – **Short Wave:** See USA – **ANN:** "This is the Voice of America Relay St. on Okinawa" – **INT-SIG:** 20 second variations of "Columbia, the Gem of the Ocean" – V. by QSL-card.

SABAH (Malaysia)

L.T: GMT+8 h – **Pr.L:** English, Malay, Chinese, Kadazan, Murut, Indonesian.

R. MALAYSIA SABAH (Gov.)
ADDR: Dept. of Radio, Jesselton. **Te:** 2711. **Cable:** "Broadcasts". **L.P:** Contr. of Radio: S. H. Amin. Chief Eng: W. A. M. Ramsbotham.
STATIONS (System: STC, Redifon, Marconi):
565kc 10kW – 750kc 5kW – 930kc 5kW – 9WD215 4970kc 60.36m 5kW – **FM:** 97.5Mc 100kW (ERP).
HOME SCE: On 930/4970kc+FM (Jesselton): W 22.30–00.30, 04.00 (Sat 03.00)–06.15, 07.45–15.00. **Sun:** 22.30–06.45, 07.45–15.00. **English:** 23.30–24.00(W), 01.30–04.00(Sun), 03.00–04.00(Sat), 05.00–05.30(Sat 06.30), 11.00–11.45, 13.30–15.00 – **Malay:** 00.00–00.30(W), 00.30–01.30(Sun), 05.30–06.15(Mon–Fri), 05.30–06.45(Sun), 06.30–07.45 (Sat), 11.45–13.30 – **Chinese:** 23.00–23.30(Sun 00.30), 04.30–05.00, 08.00–09.30 – **Kadazan:** 22.30–23.00(Sun 23.30), 04.00–04.30, 09.30–09.45, 10.00–11.00 – **Murut:** 09.45–10.00 – **Indonesian:** 07.45–08.00. **Regional St's: Tenom: 565kc:** 08.30–09.00 Murut (tape from Jesselton), 09.00–13.30 rel. Jesselton. **Tawau 750kc:** 07.45–08.00 rel. Jesselton, 08.00–09.00 (tape from Kuala Lumpur). 09.00–11.00 rel. Kuala Lumpur, 11.00–11.45 (tape from Jesselton), 11.45–13.30 rel. Jesselton – **FM:** rel. Jesselton.
ANN: "This is R. Malaysia, Sabah broadc. from Jesselton" – **INT-SIG:** Opens with Sabah anthem and closes with Nat. anthem – V. by letter. Re to Asst. Contr. of Prgr's – **PUB:** "R. Sabah Calling" (fortnightly).

SARAWAK (Federation of Malaysia)

L.T: GMT+8 h – **Pr.L:** English, Malay, Chinese, Dayak, Melanu, Bidayuh.

R. MALAYSIA SARAWAK (Gov.)
ADDR: Broadc. House, Kuching. **Te:** 2345. **Cable:** Broadcasts. **L.P:** Contr. of Radio: J. Salleh Askor. Chief Eng: C. Lian Fatt.
STATIONS:

kc	m	kW	kc	m	kW	kc	m	kW
730	410.9	20/10	3259	92.05	20	5037	59.56	20
850	352.9	20/5	4835	62.05	20	7160	41.90	20
950	315.8	20/5	4950	60.60	20	7270	41.27	20

HOME SCE. in English, Malay, Chinese, Iban, Bidayuh:
Morning Sce: On 730/3259/4950/7160kc: 23.00–01.00(English 23.00, Chinese 00.00). **On 850/4835/7270kc:** 23.00–01.00(Iban 23.00, Bidayuh 23.30, Malay 00.00) – **Midday Sce: On 730/4950/7160kc:** Chinese: 04.00–05.00(W). English: 05.00–05.30(Sat 06.30, Sun 03.00–06.30). **On 850/4835/7270kc:** Malay: 04.00–05.00(Tues, Wed), 04.00–05.30(Fri), 04.00–06.00(Sun). Iban: 04.00–05.00(Mon, Thurs, Sat), 03.00–04.00(Sun). **On 5037kc:** Bidayuh: 04.00–05.00(Sun) – **Evening Sce: On 730/4950kc:** 09.00(Sun 08.00)–16.00. Chinese: 09.00(Sun 08.00)–11.00, 12.30–14.00. English: 11.00–12.30, 14.00–16.00. **On 850/4835kc:** 08.30–16.00 (Malay: 08.30–10.30, 12.30–14.00, 15.00–16.00. Iban: 10.30–12.30, 14.00–15.00). **On 5037kc:** Bidayuh: 11.00–13.00.
ANN: E: "This is R. Malaysia Sarawak". Malay: "Ini-lah R. Malaysia Sarawak". Dayak: "Tu R. Malaysia Sarawak" – **INT-SIG:** A musical phrase played on a native instrument, the Sapé, a musical phrase alternating between A and F. A 1kc tone is radiated for a 3 min's commencing 5 min's before each tr – V. by QSL-card – **PUB:** "R. Times" (fortnightly).
Wilh. Franz KG, Germany: EMT studio equip.

SAUDI ARABIA

L.T: GMT+3 h – **Pr.L:** Arabic.

SAUDI ARABIAN BROADCASTING (Gov.)
ADDR: Ministry of Information, Airport Rd, Jeddah. **Cable:** Information Ministry. **Te:** 4171.
L.P: Minister of Inf: H. E. Sheikh J. Hijailan. Dir. Gen. of Broadc: Sheikh A. F. Ghazawi. Dir. Gen. of Press: Sheikh G. A. Al-Farag. Chief Eng: A. Andreou.
STATIONS: *=Jeddah, **=Riyadh.

kc	m	kW	kc	m	kW	kc	m	kW
* 602	499	50	** 7220	41.55	50	*11870	25.27	50
** 647	464	1	* 9670	31.02	50	*11950	25.10	100
* 725	414	50	** 9720	30.86	50	*17840	16.82	50
*7085	42.34	100	*11855	25.31	50			

HOME SCE: General Arabic Prgr: Approx. 04.00–07.30, 10.00–14.55, 16.35–22.00 (h of tr. depends on sunset). "Voice of Islam": Approx. 14.55–16.35.
FOREIGN SERVICE: 11.00–12.00, 13.00–20.00.
English: 11.00–12.00, 17.00–20.00 on 725kc only – **Indonesian:** 13.00–14.00 on 17840kc – **Urdu:** 14.00–15.00 on 17840kc – **Persian:** 15.00–16.00 on 11855kc – **Swahili:** 16.00–17.00 on 11855kc.
ANN: Gen. Arabic Prgr: "Al Izaa Al Arabia Al Seoudia". Voice of Islam: "Sawt Al Islam Min Makatah Al Mukarahmah". Indonesian: "Disini Saudi Arabia". Urdu: "Mecca Mukarama Ka Awas Saudi Arab Radio". English: "This is the English Service of Saudi Arabian Broadcasting". Persian: "Inja Arabastani Sadiest Bachschi Farsi".
INT-SIG: Call to prayer (Az'an) played on flute – V. by letter, postcards. Recordings accepted – **F.PL:** Riyadh 1200kW (mw).
Wilh. Franz KG, Germany: EMT studio equip.

SINGAPORE

L.T GMT+7½ h – **Pr.L:** Malay, Chinese, Tamil, English.

RADIO SINGAPURA (Gov.)
FI: By Gov. and license payments – **ADDR:** Broadc. Division, Ministry of Culture, P.O. Box 1902, Singapore. **Te:** 50401. **Cable:** Broadcast – **L.P:** Ag. Head Broadc. Div: P. S. Raman. Head Eng. Section: G. Ang. Head Prgr. Section: C. V. Doral. Ag. Head N: S. T. Keong. Comm. Mgr: H. F. Lee.
STATIONS:

kc	m	kW	Prgr.	kc	m	kW	Prgr
630	467.2	10	E	6155	48.74	7.5	M
680	441.2	10	C	7170	41.84	7.5	C/T
790	379.5	10	M	7250	41.38	7.5	M
990	303.0	20	C/T	9635	31.14	50	C
5052	59.38	50	E	11940	25.13	50	E
5990	50.08	7.5	C				

E=English Sce, C=Chinese Sce, M=Malay Sce, T=Tamil Sce.
English Sce: On 630/5052/11940kc: 22.30–01.30, 03.30–08.30, 09.30–

16.30 (Fri/Sat/Sun 22.30–16.30). (11940kc is off the air at 01.30–04.30) N: 00.00, 00.45, 06.00, 11.30, 14.00, 15.30.
Malay Sce: On 790/6155/7250kc: 22.30–01.30, 04.00 (Tues, Thurs 02.00)–06.30, 07.30–16.30 (Fri/Sat/Sun 22.30–16.30). (6155kc from 04.00) N: 00.30, 05.30, 10.30, 13.30, 14.30,15.30.
Chinese Sce: On 680/5990/9635kc: 22.30–01.30, 02.30–07.30, 08.30–16.30 (Sat/Sun 22.30–16.30). (9635kc off the air at 02.30–03.30) N: 23.30, 00.00, 00.30, 01.00, 05.00, 06.00, 11.00, 12.00, 13.15, 14.00, 14.30 – On 990/7170kc: 13.30–16.30. **Tamil Sce:** On 990/7170kc: 22.30–13.30. (Tues, Thurs, Fri break in tr at 03.00–05.00) N: 23.30, 05.30, 11.00, 13.00.
ANN: E: "This is R. Singapore". Malay: "Inilah R. Singapura" – INT-SIG: Chimes – V. by QSL-card. Rp. Recordings accepted – PUB: "Radio Weekly".

Tr's: AWA, Collins Gates, Marconi, Philiips, RCA.

BBC FAR EASTERN STATION

ADDR: P.O. Box 416, Johore Bahru, Malaysia.
STATIONS (Transmitters located at Tebrau, Malaysia):

kc	m	kc	m	kc	m	kc	m
3915	76.64	9560	31.38	11920	25.17	17880	16.78
6010	49.92	9570	31.35	11930	25.15	21485	13.96
6080	49.34	9580	31.32	11955	25.09	21610	13.88
6110	49.10	9690	30.96	15260	19.66	21650	13.86
7110	42.19	9725	30.85	15310	19.60	21655	13.86
7120	42.13	11725	25.59	15350	19.54	21720	13.81
7135	42.05	11750	25.53	15435	19.44	21740	13.80
7150	41.96	11820	25.38	17755	16.90	25650	11.70
7235	41.47	11830	25.36	17870	16.79	25850	11.61
7240	41.44	11880	25.25				

RELAYS OF BBC WORLD SERVICE

	m.b.
No. & Ea. China, Korea & Japan m.b.	
23.00–23.15	31, 25
09.15–09.45	25, 19, 16
10.30–11.30	19, 16
11.30–13.45	19
So. China, Hong Kong, Vietnam, Laos, Cambodia	
23.00–23.15	75, 49, 31, 25
00.00–00.15	31, 25, 19
00.15–00.30	31, 25
00.30–00.45	31, 25, 19
09.15–09.45	25, 19, 16
10.30–11.30	19, 16
11.30–13.00	25, 19
13.00–13.15	31, 25, 19
13.15–13.45	19
13.45–14.15	41, 25
14.15–17.15	41, 31, 25
Indonesia	
23.00–23.15	75, 49, 31
23.30–23.45	75, 49
00.00–00.45	25
09.15–09.45	41, 31, 25
09.45–11.00	25
11.00–11.15	41, 31, 25
11.15–11.30	25
Burma, Thailand	
23.00–23.15	75, 49, 31
00.00–00.15	31, 25, 19
00.15–00.30	31, 25
00.30–00.45	31, 25, 19
09.15–09.45	19, 16
10.30–11.30	19, 16
11.30–13.00	25, 19
13.00–13.15	31, 25, 19
13.15–13.45	31
13.45–14.00	41, 31, 25
14.00–14.15	41, 31, 25, 19
India, Pakistan, Ceylon	
11.00–11.15	25
13.00–13.45	31
13.45–17.15	31, 19
Australia	
13.00–13.15	25
RELAY ASIAN SCE:	
Japanese[1]	**m.b.**
22.00–22.15	49, 41, 31, 25, 19
11.00–11.30	25
Standard Chinese[2]	
22.30–22.45	75, 49, 41, 31, 25
12.00–12.30	31, 25, 19
Cantonese[2]	
22.15–22.30	75, 49, 41, 31, 25
12.30–12.45	31, 25, 19
Vietnamese[3]	
22.45–23.00	75, 49, 41, 31, 25
11.30–12.00	31, 25, 19
Thai[4]	
23.45–24.00	31, 25, 19
13.15–13.45	31, 25
Indonesian[5]	
23.15–23.30	75, 49, 31
10.30–11.00	41, 31, 25
Burmese[6]	
00.15–00.30	31, 25, 19
13.45–14.15	31, 25
Urdu[7]	
14.15–15.00	25
Hindi[7]	
15.00–15.45	25
So. Asian Reg.[7]	
15.45–16.15	25

[1] to Japan; [2] to China, Vietnam, Laos, Cambodia; [3] to Vietnam, Laos, Cambodia; [4] to Thailand; [5] to Indonesia; [6] to Burma, Thailand; [7] to India, Pakistan, Ceylon.
V: The BBC welcomes reception reports, which are acknowledged with a special card. Re. to C.E.X.B. British Broadcasting Corporation, Bush House, London W.C.2. Recordings accepted.
Wilh. Franz KG, Germany: EMT studio equip.

BRITISH FORCES BROADC. SCE. SINGAPORE

is operated by the Ministry of Defence to provide a service of inf, entertainment as well as a link with home for H.M. Forces stationed in Singapore. It is non-comm, does not accept adv.
ADDR: BFBS, c/o HQ FARELF, GPO Singapore. **Te:** 2801 – **L.P:** St. Contr: W. J. O. Ettridge.
STATION (System: Marconi): 5010kc 59.88m 10kW.
D.PRGR: 06.30–12.30 British Prgr, 12.30–14.30 Gurkha Prgr – N: 09.15, 11.00 – **ANN:** "This is the British Forces Broadc. Sce. Singapore" – **INT-SIG:** The Waltzing Bugle Boy (Celeste) – V. by QSL-card. Rp.

REDIFFUSION SINGAPORE (Comm.)

ADDR: P.O. Box 608, Singapore. Te: 25011. Cable: Rediffuse. L.P: Man. Dir: G. H. Oldridge. St. Mgr: J. Snowden. Comm. Mgr: Mrs. J. Taylor. D.Prgr's: 22.30–16.30; Two simultaneous prgr's (English & Chinese) via wired network.

SYRIAN ARAB REP.

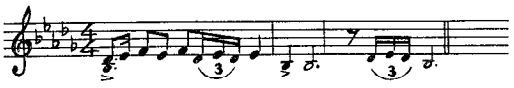
L.T: GMT+2 h (Su: GMT+3 h) – Pr.L: French, Arabic.

SYRIAN BROADCASTING AND TELEVISION (Gov.)

ADDR: Ommayad Spuare, Damascus. LP: Dir. Gen: A. M. Zeifa. Dir. Tec: Y. Zenati. Dir. Prgrs: R. N. Ekhtiar.
STATIONS:

kc	m	kW	kc	m	kW	kc	m	kW
566	530	300	953	314.8	20	11750	25.53	0.33
665	451	100	5287	56.75	0.33	11915	25.17	20
719	417	2	6165	48.66	20	15165	19.78	50
746	402	100	7390	40.60	7.5	15190	19.75	50
786	381	10	7700	38.90	0.33	17865	16.80	20
863	348	10	9555	31.40	50			

HOME SCE: Arabic: 04.00–08.00, 11.00–23.00 on 566/665/746/786/953kc, 19.00–21.30 on 719/863/9555kc, 04.00–23.00 on 5287/6165 (to Egypt/Libya)/7700/11750kc, 04.00–08.00, 11.00–14.00 on 11915kc (to No. Africa), 22.00–23.00 on 9555kc.
English & French: 05.00–07.30 on 719/863/7390kc, 16.00–19.00 on 719/963kc. **N. in English:** 05.30, 17.00. **N. in French:** 06.30, 18.00. **Hebrew, German, Yugoslavian (mixed):** 14.00–15.00 on 863/9555kc – **Turkish:** 15.00–16.00 on 863/719/7390kc.
FOREIGN SCE: English & French (to Europe): 16.00–19.00 on 15165kc. **N. in English:** 18.00–18.15. **N. in French:** 17.00–17.15. **Arabic/Spanish/Portuguese** (mixed): 23.30–02.00 on 11915 (No. America)/15190 (So. America)/17865kc (Ce. America).
ANN: Arabic: "Houna Dimashk". E: "This is Damascus Calling". F: "Ici Damas". S: "Aqui Damasco". Hebrew: "Kol Damasseh" – **INT-SIG:** Guitar – V. by QSL-card and letter.



Telefunken AG, Germany: 50kW mw-tr. (Damascus).
Wilh. Franz KG, Germany: EMT studio equip.

THAILAND

L.T: GMT+7 h – Pr.L: Thai.

THE THAI NATIONAL BROADCASTING STATION (Gov.)

ADDR: Public Rel. Dept. Bangkok. Te: 4881. Cable: Radio Thailand. L.P: Dir. Gen: Lt. Gen: K. Punnakanta. Dep. Dir. Gen: P. Hongsanand. Dr. W. Siwasariyananda. St. Mgr: I. Kanchanakooha. Dir. Tec: A. Pojanapisut. Chief, Home Service: D. Sriyapai. Chief, Overseas Broadc. Division: V. Ampaivorn.
STATIONS: Medium Waves:

Call	kc	m	kW	Call	kc	m	kW
HSK27	810	370.1	1	HSK5	6070	49.42	10
HSK2	830	370.4	100	HSK5	6097	49.20	1
HSK28	856	350.4	10	HSK4	6160	48.70	1
HSLK	927	323.5	10	HSK7	7185	41.75	5
Short Waves:				HSDK	9655	31.07	2.5
HSKB	4830	62.10	10	HSK9	11910	25.18	100

HOME SCE. in Thai: 00.00–01.00, 12.00–15.30 on 830/927/4830/6070/7185/11910kc. N: 13.30 – **Other languages: French:** (Mon–Fri) 05.30–06.00 on 830/11910kc. **Laotian:** 13.15–13.35 on 830/6097kc.
OVERSEAS SCE: To No. America: 04.15–05.15 on 6160/11910kc, 17.00–18.00 on 11910kc. **N. in English:** 04.25, 17.15 – **To Thai Forces in Korea, Vietnam, Cambodia:** 09.30–10.20 on 11910kc. **N: Thai** 09.32, **Vietnamese** 09.45, **Cambodian** 10.00 – **General Overseas Sce:** 10.25–11.57 on 6160/11910kc. **N: English** 10.30, **Malay** 11.30, **Chinese (Kuoyu)** 11.45 – **Rel. Home Sce:** 13.00–14.00 on 11910kc. N. Thai.
Regional Stations (in Thai):

Call	kc	m	kW	h of tr.
HSKK	630	476.2	50	23.00–15.45
HSWK	725	413.8	50	
HSK22	1130	265.4	10	23.00–07.00, 09.00–16.00
HSK24	1210	247.9	10	23.00–16.00
HSKU	1345	223.0	10	23.00–02.00, 04.00–07.00, 11.00–15.30
HSK24	4640	64.65	1	22.30–11.30

ANN: E: "This is the Overseas Broadc. St. of Thailand". F: "Ici R. Bangkok". Thai: "Thini Stani Vitayu Krajai Sieng hang Pra Thes Thai" – V. by letter. Re. to Overseas Broadc. Division, Public Relations Dept, Bangkok.

MINISTRY OF EDUCATION (Gov.)

ADDR: Division of Educ. Inf. Ministry of Education, Bangkok. Te: 46139 – L.P: Dir. Div. of Educ. Inf: K. A. Meesook. Dir. Tec: P. Sapsomboon.
STATIONS:
1180kc 254.2m 2kW – 3202kc 91.69m 2kW – 6062kc 4948m 2kW.
HOME SCE. in Thai, English: Mon–Fri 02.00–07.00 School prgr's (in term time), W 11.00–13.00, Sun 09.00–13.00 (General Prgr's) (in Thai and occ. English). N: 11.35–12.55.
ANN: E: "This is the Educ. Broadc. St. of Thailand, broadc. on a frequency of..." – V. by letter – F.PL: 10kW for 1180kc (1966) – PUB: "R. Times" (in Thai).

THAI TELEVISION CO. LTD. (Comm.)

ADDR: Mansion B. Rajadamnern Ave, Bangkok. Cable: "Thaitevi". Te: 27952 – L.P: Dir. Gen: K. Punagunta. Man. Dir: P. Hongsanand. Chief Eng: A. Rajprasit. Prgr. Mgr: Mrs. S. Siddhichai.
STATIONS (System: Gates (mw)):
1500kc 200.0m 10kW Prgr. I – 5010kc 59.88m 1kW Prgr. I
1146kc 262.0m 10kW Prgr. II – 7105kc 42.22m 1kW Prgr. II
FM: 100.5Mc (Prgr. I), 94.5Mc (Prgr. II music), 96.5Mc (Prgr. III), 95.0Mc (Stereo-Multiplex) (Prgr. IV).
HOME SCE. in Thai: Prgr. I: 23.00–16.00 – N. in Thai: 00.00, 00.45, 01.00, 02.30, 03.35, 04.20, 05.40, 07.45, 08.30, 09.30, 10.40, 11.30, 13.00, 13.40, 15.00.
ANN: "This is the regular Sce. of TTV Radio broadc. everyday on the freq's of 1500kc, 5030kc and 100.5Mc on FM. Transmission comes to you every day, from six o'clock to eleven o'clock" – V. by letter. Records accepted–F.PL: 50kW–PUB: TTV Mirror (monthly).

OTHER STATIONS

kc	m	kW	Location	kc	m	kW	Location
1) 4300	69.77	0.5	Lop Buri	1) 5550	54.05	1	Sra Buri
2) 4620	64.94	1	N. Ratchasima	2) 5850	51.28	1	N. Ratchasima
3) 4755	63.09	0.5	Bangkok	3) 5955	50.38	0.5	Bangkok
2) 4770	62.89	1	Bangkok	7) 6100	49.18	0.25	Bangkok
4) 4783	62.72	0.5	Bangkok	8) 6405	46.84	0.25	Bangkok
5) 4810	62.37		Bangkok	3) 6985	42.95	0.5	Laksi
6) 4816	62.29		Bangkok	3) 7135	42.05	0.25	Bangkok
1) 4890	61.35	0.5	Chiengmai	9) 7160	41.90	0.25	Don Muang
1) 5030	59.64	0.5	Bangkok	1) 7250	41.38	0.5	Bangkok
1) 5030	59.64	1	Bangsue	2) 7620	39.37	1	N. Ratchasima
7) 5040	59.52	0.25	Bangkok				

1) Thai Army; 2) Police Dept; 3) Post & Telegraph Dept; 4) Exp. st. of the Thai Army; 5) Ministry of Agriculture; 6) Dept. of Territorial Defense; 7) Thai Navy; 8) Office of the Royal Household; 9) Thai Air Force.

TIMOR (Portuguese)

L.T: GMT+8 h – Pr.L: Portuguese.

EMISSORA DE RADIODIFUSÃO DO TIMOR PORT. (Gov.)

FI: By Gov. adv, license payments – ADDR: Dili. Te: 295 – L.P: Dir. Gen: D. S. M. de Carvalho Braga. St. Mgr: J. J. das Neves. Dir. Tec: J. Cosme.
STATION (System: Gates): 3268kc 91.78m 1kW.
HOME SCE. in Portuguese: D 04.30–06.00, 10.00(Sun 00.30)–14.30 (Sat 15.00) exc. for times for Tetum (local language) and Chinese. Tetum: 10.15–10.25(Thurs 10.45) – Chinese: Wed & Sat 12.30–13.00.
ANN: "Aqui Emissora de Radiodifusão de Timor Português, funcionando na banda dos 90 metros, freq. de 3268kc".
INT-SIG: Gong – V. by QSL-cards or letter. Recordings accepted.

TURKEY

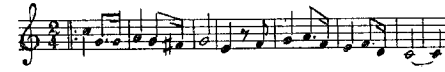
L.T: GMT+2 h – Pr.L: Turkish.

TURKISH RADIO AND TELEVISION ASSOCIATION (Indep.)

ADDR: Radyo-Televizyon Kurumu Genel Müdürlügü, Ankara. Cable: TRT – L.P: Dir. Gen: A. Öztrak. Secr. Gen: K. Akçakoca. Dir. R. Ankara: Y. Hiçyilmaz. Dir. Tec: D. Erden. Dir. Prgr: T. Özakman. Dir. TV Dept: F. Isikçi.
STATIONS: Ankara: Main st. Other reg st's.

	kc	m	kW		kc	m	kW
Ankara	182	1648.0	240	Van	1178	254.7	2
Istanbul	701	428.0	150	Gaziantep	1210	248.0	2
Istanbul	963	311.6	2	Antalya	1295	231.7	2
Izmir	1033	290.4	2	Short Waves:			
Ankara	1063	282.2	2	Erzurum	7650	39.21	1
Adana	1133	264.8	2	Diyarbakir	9760	30.74	0.3
Kars	1165	258.0	2	Iskenderun	9770	30.70	0.3

HOME SCE: Ankara (182kc): W 04.25–13.00, 14.55–22.00. Sat/Sun 04.25–22.00 – Ankara (1063kc): W 15.57–23.00. Sat/Sun 13.00–23.00 – Istanbul (701kc): W 04.25–13.00, 14.55–22.00. Sat/Sun 04.25–22.00 – Istanbul (963kc): W 15.57–23.00. Sat/Sun 13.00–23.00 – Izmir (1033kc): W 04.25–08.00, 09.57–13.00, 14.55–22.00. Sat 04.25–08.00, 09.57–22.00. Sun 04.25–22.00.
Other st's: W 04.57–07.00 (Sun 05.27–08.00) 09.57–12.00, 15.57–21.00.
ANN: "Burasi Ankara" (This is Ankara) or "Burasi Istanbul Radyosu" (This is Radio Istanbul).
INT-SIG: R. Ankara and R. Istanbul:



FOREIGN SERVICE

STATIONS:

Call	kc	m	kW	Call	kc	m	kW
TAS	7285	41.18	100	TAU	15160	19.79	100
TAT	9515	31.53	100	TAQ	15195	19.74	20
TAP	9745	30.78	20	TAV	17820	16.84	100

Nov/Feb, March/April

Arabic	kc	**Persian**	kc
16.00–16.30	9745	13.45–14.15	17820
18.30–19.30	9745	15.30–16.00	9745
Bulgarian		**Pushtu**	
17.00–17.30	9745	13.15–13.45	17820
English		**Rumanian**	
14.15–14.45	17820	16.30–17.00	9745
22.00–22.30	15160	**Serbo-Croat**	
French		17.30–18.00	9745
19.00–19.30	15160	**Turkish**	
German		04.20–07.00*	9745, 15160
18.30–19.00	15160	07.00–13.00**	9745, 15160
Greek		15.30–18.15°	9515
18.00–18.30	9745	19.45–21.45°	9515, 9745
		Urdu	
		14.45–15.15	17820

*=relay 182kc; **=relay 182kc until 11.00(Sun), 12.00(Sat). Special prgr. Sun 11.00–13.00, Sat 12.00–13.00. °=Voice of Turkey.
N. at the beginning of every tr – ANN: E: "This is R. Ankara". F: "Ici postes émetteurs de Turquie, R. Ankara a ondes Courtes émettant sur une longueur d'onde de...". G: "Hier ist der Türkische Landessender Ankara, auf Kurzwelle...". Turkish: "Burasi Türkiyeradyo yayin postalari, kisa dalga Ankara Radyosu".
INT-SIG: As for Home Sce – V. by QSL-card – F.PL: Erzurum 245kc, Izmir 971kc 100kW, Diyarbakir 209kc 250kW (1966) – PUB: Prgr. schedule (weekly) for R. Ankara, R. Istanbul, R. Izmir, R. Antalya, R. Adana, R. Ganziantep.
The Marconi Company Ltd, G.B: 2×120kW 1w-tr's (Ankara). Wilh. Franz KG, Germany: EMT studio equip.

ISTANBUL UNIVERSITY (Gov, Educ.)

ADDR: Fen Fakültesi (Faculty of Science), Tatbiki Fizik Merkezi, Istanbul. Te: 222808 – L.P: Dir. Gen: Prof. Dr. F. Yenicay. St. Mgr: Y. Kaini. Dir. Tec: S. Sinman – STATION: 7100kc 42.25m 1.6kW – D.PRGR: 16.00–18.00 – University N: 16.00.
ANN: "Burasi 42 metre dalgaboyu üzerinden tecrübe yayini yapan Istanbul Universitesi Fen Fakültesi Radyosu" ("Here is the Experimental R. Station of Istanbul University Faculty of Science broadcasting on 42 m" – V. by letter. Recorded re. in E. preferred – PUB: Prgr. schedule free.

TECHNICAL UNIVERSITY OF ISTANBUL (Gov.)

ADDR: Teknik Universite, Elektrik Fakültesi, Yüsek Frekans Teknigi Kursüsü, Istanbul. Te: 482250.
HOME SERVICE: I.T.U.=Istanbul Teknik Üniversitesi.
6299kc 47.62m 1kW: 18.15–20.00(exc. Sat).
7018 – 42.74 – 0.5 – : 18.15–20.00(exc. Sat).
FM: 99.5Mc 0.25kW: 18.15–20.00 (exc. Sat).
Frequencies are shifted slightly if interference occurs.
D.PRGR: Classical Music & National (Turkish) Music: Sun, Tues, Thurs 18.15–18.45.
ANN: Turkish: "Burasi Istanbul Teknik Üniversitesi Radyosu". E: "Here is the R. Station of the Technical University of Istanbul" – INT-SIG: "Turkish March" by Mozart – V. by letter. Rp.

ELEKTRIK ELEKTRONIK SANAT ENSTITÜSÜ DEMENE RADYOSU (Educ. st. for Schools).

ADDR: Izmir. Te: 23947 – L.P: Dir. Gen: A. Kirdar – STATIONS: TAO6 1200kc 0.75kW – 7100kc 0.25kW – D.PRGR: 13.00–14.00 – ANN: "Elektrik Elektronik Sanat Enstitüsü Deneme Radyosu" – V. by letter.

TECHNICAL SCHOOL OF ISTANBUL (Educ.)
ADDR: Istanbul Yüksek Teknik Okulu, Yildiz, Istanbul. **Te:** 473230.
L.P: Dir. Gen: A. Ergeneli. Gen. Mgr: K. Suer. Dir. Tec: G. Yildiz.
STATION: TAO5 7143kc 42.01m 1.6kW – **D.PRGR'S:** W 18.00–20.00. Sun 11.00–13.00. Language Lessons (30 min's) & Music (Western & Turkish recordings) – **ANN:** "Burasi Istanbul Yüksek Teknik Okulu Radyosu" – **V.** by letter – **F.PL:** 1kW in 1966 and extension of tr. time.

VIETNAM (Democratic Republic)

L.T: GMT+7 h – **Pr.L:** Vietnamese.
THE VOICE OF VIETNAM (Gov.)
ADDR: No. 58, Quan-Su Street, Hanoi. **Te:** 4134 – **L.P:** Dir. Gen: T. Lâm. Dir. Foreign Prgr's L. Quy:
STATIONS: Hanoi.

kc	m	kc	m	kc	m
1010	297.0	5985	50.13	11640	25.77
1240	241.9	9760	30.74	11840	25.34
4684	64.05	9840	30.49	15044	19.94

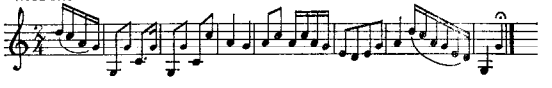
HOME SCE: 21.14–23.30, 02.45–05.00, 07.30–08.30, 09.30–16.00 on 1010/4684/5985/9840/11840/15044kc. **N:** 22.30, 04.00, 04.30, 11.30, 13.00, 13.45.
FOREIGN SERVICE: English: 05.00–05.15, 13.00–13.30, 15.30–16.00 on 1240/9760/9840/11640/11840kc – **Japanese:** 09.30–10.00 on 1240/9840/11840kc, 13.30–14.00 on 1240/9760/9840/11640/11840kc, 16.00–16.30 on 1240/9840/11840kc – **Korean:** 14.00–14.30 on 1240/9840/11840kc.
In French, Cambodian, Laotian, Thai, Cantonese & Standard Chinese on 1240/9840/11840kc: **French:** 22.45–23.00, 04.15–04.30, 14.00–14.30 – **Cambodian:** 09.30–10.00, 12.30–13.00 – **Laotian:** 09.00–09.30, 11.00–11.30 – **Thai:** 05.30–06.00, 12.00–12.30 – **Cantonese:** 10.30–11.00, 14.30–15.00 – **Standard Chinese:** 11.30–12.00, 04.30–05.00.
ANN: E: "This is the Voice of Vietnam, broadc. from Hanoi, Capital of the Democratic Republic of Vietnam" – **V.** by QSL-card. Prgr. schedules, pamphlets, pennants free. Recordings accepted.

VIETNAM (Republic)

L.T: GMT+8 h – **Pr.L:** Vietnamese.
RADIO VIETNAM (Gov.)
ADDR: 3 Phan-Dinh-Phung Str, Saigon. **Te:** 25935. **Cable:** VTVN.
L.P: Dir: Vu Duc Vinh. Dir. Tec: Tran Cong Than. Dir. Prgr: Vu Duc Minh.
STATIONS: Saigon (Systems: Gates, TRT, CFTH, Collins,TEMCO):

kc	m	kW/Prgr.		kc	m	kW/Prgr.		kc	m	kW/Prgr.	
610	491	20/60	B	1360	220	1	AFRS	7245	41.41	20	B
740	405	10/10		4877	62.51	20	A	9620	31.19	50	A
870	345	50/200	A	6165	48.66	20	A	9755	30.76	1	C
1090	275	1/1	C								

HOME SCE: Prgr. A (Vietnamese): 21.55–16.00. **N:** Every h on the h at 22.00–15.00 exc. 05.00; also 05.10, 15.50.
Prgr. B: 22.00–02.00, 03.30–07.00, 09.00–15.00. **Vietnamese** (Forces Prgr's): 22.00–24.00, 03.30–05.00, 09.00–13.00. **N. in Vietnamese** (dictation): 06.15–07.00. **Chinese:** 00.00–02.00, 05.00–06.15, 13.00–13.30, 14.00–15.00. **N. in English** (dictation): W 13.30–14.00.
Prgr. C (Vietnamese, English, French, Thai, Cambodian): 21.58–00.30, 04.00–05.30, 10.15–13.00. **English:** 23.30–24.00, 12.00–12.30 (N. dictation), 12.30–13.00. **French:** 11.00–12.00. **Cambodian:** 04.30–05.00, 10.15–11.00. **Thai:** 00.00–00.30.
L.L: English 22.30–23.00 (in Vietnamese), 05.15–05.30 (in French). French 05.00–05.15.
AFRS Prgr. (in English only) 22.00–16.00.
ANN: Vietnamese: "Dây là Dài Tiêng Nói Núoc Viêt-Nam Công-Hôa phát thanh tú Saigon". F: "Ici VTVN, La voix de la république du Viet-Nam, émettant de Saigon". E: "This is VTVN, the Voice of the Republic of Viet-Nam broadcasting from Saigon" – **INT-SIG:** Cither solo.



V. by QSL-card or letter. Rp. Recordings accepted – **F.PL:** New st's (0.05kW) at Mytho, Long An, Kien-Hoa.
REGIONAL STATIONS (Systems: Gates, STC, RCA, TEMCO):

Location	kc	m	kW	Location	kc	m	kW
Huê	650	461.5	20/100	Dalat	1440	208.0	1/1
Banmethout	690	434.8	50/100	Banmethout	4810	62.37	50
Baxuyen	780	385.0	10/30	Dalat	6116	49.05	5
Quang Ngai	890	337.0	1/2	Huê	9670	31.02	5
Nhatrang	970	371.5	1/2	Nhatrang	9720	30.86	0.2
Quynhon	1250	240.0	1/3				

Huê: 22.00–00.45, 02.00–05.45, 08.00–15.00 – **Banmethout:** 23.00–24.00, 03.00–06.00, 10.00–14.00 – **Baxuyen:** 03.30–05.00, 09.30–12.00 – **Quang Ngai:** 22.30–00.15, 03.30–05.15, 10.00–13.00 – **Dalat:** 22.28–01.15, 03.57–04.00, 08.58–13.45 – **Nhatrang:** 22.15–00.15, 02.00–05.45, 08.00–15.00.

VOICE OF AMERICA RADIO STATION IN VIETNAM
ADDR: Voice of America, Washington 25, D.C. USA.
STATIONS: Hué 760kc 50kW: 11.00–16.30 Vietnamese.

YEMEN

L.T: GMT+3 h – **Pr.L:** Arabic.
RADIO SANAA (Gov.)
ADDR: Sanaa – **L.P:** Dir. Gen: A. Sarham. Dir. Tec: H. Magdi.
STATIONS: 881kc 10kW – 5804kc 51.70m 25kW.
HOME SCE. in Arabic: 03.00–06.00, 11.00–15.00, 16.00–22.00 (approx) – **N:** 04.00, 12.00, 17.00, 19.45.
ANN: "Huna San'aa" – **V.** by letter. Rp.

PACIFIC

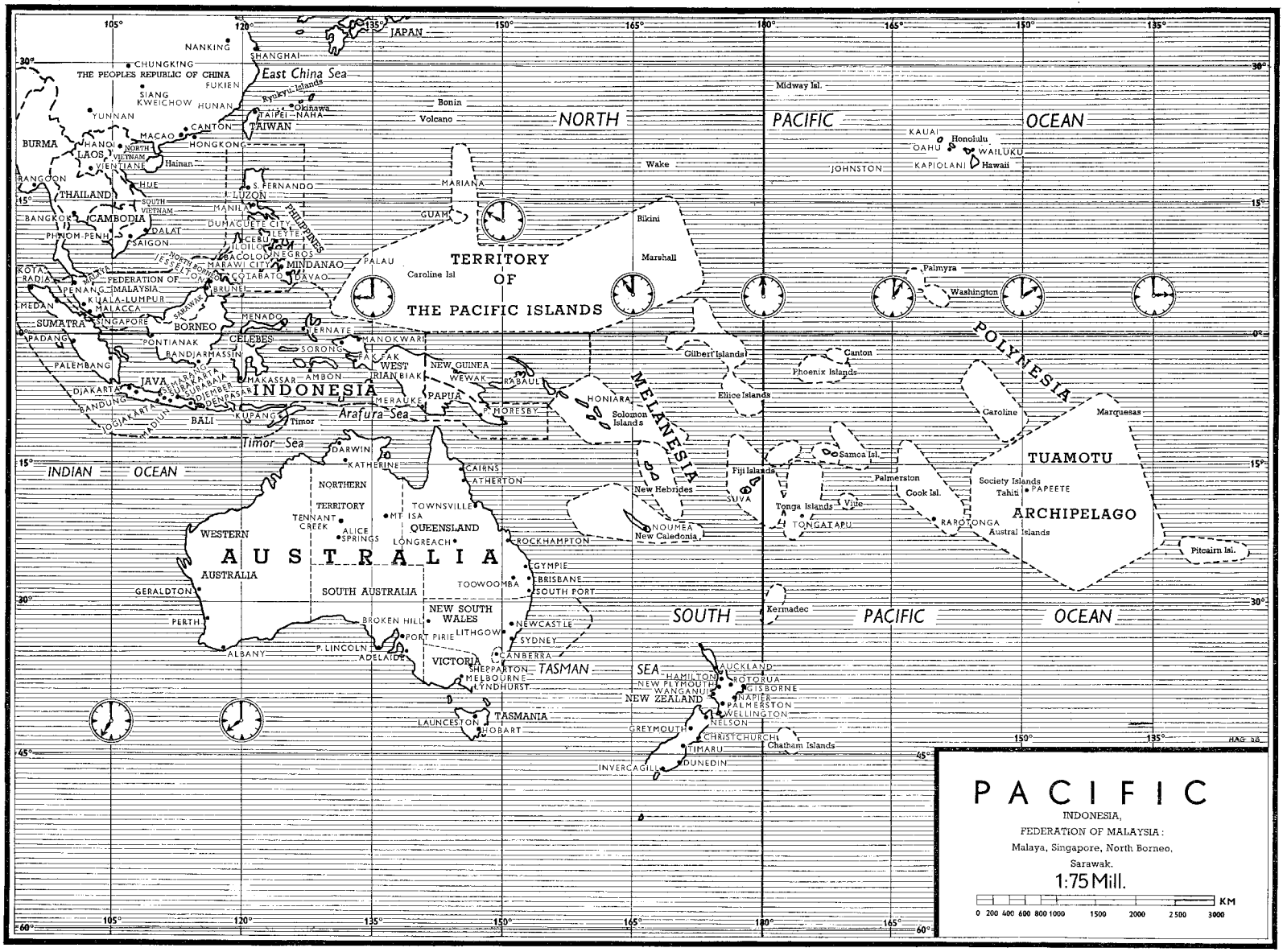
AUSTRALIA (Commonwealth of)

L.T: Ea. Austr: GMT+10 h, So. Austr: GMT+9½ h, We. Austr: GMT+8 h – **Pr.L:** English.
AUSTRALIAN BROADCASTING COMMISSION (ABC)
Constituted under the Broadc. and TV-Act 1942–63. The Australian National Broadc. Sce. prgr's are the responsibility of the ABC which is responsible to the Postmaster General. The technical sce's in Radio and TV studios are provided by the ABC Engineering Dept: the tr's are operated by the Postmaster General's Department.
FI: By annual appropriation from the Commonwealth Gov's budget.
ADDR: Head Office: 145 Elisabeth St, Box 487 G.P.O. Sydney. **Cable:** ABCOM. **Te:** 31-0211.
L.P: Chmn: Dr. J. R. Darling, C.M.G, O.B.E. Gen. Mgr: T. S. Duckmanton. Dep. Gen. Mgr: C. W. Semmler. Asst. Gen. Mgr: W. S. Hamilton. Asst. Gen. Mgr (Gen.): A. N. Finlay. Contr. of Prgrs: N. Hutchison. Contr. of N: J. G. Oakley. Contr. of Techn. Sce's: V. Kenna. Dir. Overseas Sce's: P. W. R. Homfray. European Representative: E. K. Sholl, 54 Portland Place, London W.1, England. North American Representative: Ch. Buttrose, Suite 2708, 1270 Avenue of the Americas, New York 20, N.Y, USA. South-East Asian Representative: J. Hollinshead, 302 Orchard Road, Singapore 9.

THE NATIONAL BROADCASTING SERVICE

MEDIUM WAVE SERVICE: [1]=Metropolitan. [2]=Regional.
Stations in fat types are relayed on shortwave.

Call	kc	kW	Location	
Australian Capital Territory				
2CY[1]	850	10	Canberra	a)
2CN[1]	1540	2	Canberra	b)
New South Wales				
2CR[2]	550	50	Orange	a)
2ML[2]	560	0.2	Murwillumbah	a)
2FC[1]	610	50	Sydney	a)
2NU[2]	650	10	Tamworth	a)
2CO[2]	670	10	Albury	a)
2KP[2]	680	10	Kempsey	a)
2NR[2]	700	50	Grafton	a)
2TR[2]	720	0.2	Taree	a)
2BL[1]	740	50	Sydney	b)
2NB[2]	760	1	Broken Hill	c)
2AN[2]	760	0.05	Armidale	a)
2BA[2]	810	10	Bega	a)
2GL[2]	820	10	Glen Innes	a)
2NC[2]	1230	10	Newcastle	b)
2NA[2]	1510	10	Newcastle	a)
2LG[2]	1570	0.2	Lithgow	a)
2WN[2]	1580	2	Wollongong	a)
2UH[2]	1040	1	Muswellbrook	a)
Victoria				
3WV[2]	580	50	Horsham	a)
3AR[1]	**620**	**50**	**Melbourne**	a)
3LO[1]	**770**	**50**	**Melbourne**	b)
3GI[2]	830	10	Sale	a)
3WL[2]	1570	0.2	Warnamboola	
Queensland				
4QL[2]	540	10	Longreach	a)
4QR[1]	590	50	Brisbane	b)
4AT[2]	600	2	Atherton	b)
4QN[2]	630	50	Townsville	a)
4QA[2]	720	2	Mackay	a)
4QS	750	10	Toowoomba	a)
4QG[1]	**790**	**10**	**Brisbane**	a)
4RK[2]	840	10	Rockhampton	a)
4QB[2]	910	2	Maryborough	a)
4QY[2]	940	2	Cairns	a)
4MI[2]	1080	0.2	Mount Isa	a)
4GM[2]	1570	0.2	Gympie	a)
4SO[2]	1590	0.2	Southport	a)
South Australia				
5CK[2]	640	10	Port Pirie	c)
5CL[1]	730	50	Adelaide	c)
5AN[1]	890	10	Adelaide	d)
5PA[2]	1160	2	Penola	c)
5LN[2]	1530	0.2	Port Lincoln	c)
5WM[2]	1580	0.05	Woomera R. Range	c)
5MG[2]	1580	0.2	Mt. Gambier	c)
5MV[2]	1590	2	Renmark	c)
Western Australia				
6DL	530	10	Dalwallinu	e)
6WA[2]	560	50	Wagin	e)
6NM[2]	600	0.2	Northam	e)
6AL[2]	650	0.4	Albany	e)
6WF[1]	690	50	Perth	f)
6CA	720	0.2	Carnavon	e)
6GF[2]	660	2	Kalgoorlie	e)
6WN[1]	810	10	Perth	e)
6GN[2]	830	2	Geraldton	e)


PACIFIC
INDONESIA,
FEDERATION OF MALAYSIA:
Malaya, Singapore, North Borneo,
Sarawak.
1:75 Mill.
KM
0 200 400 600 800 1000 1500 2000 2500 3000
NORTH PACIFIC OCEAN
SOUTH PACIFIC OCEAN
INDIAN OCEAN
East China Sea
Timor Sea
Arafura Sea
Tasman Sea
TERRITORY OF THE PACIFIC ISLANDS
POLYNESIA
MELANESIA
TUAMOTU ARCHIPELAGO
AUSTRALIA
INDONESIA
THE PEOPLES REPUBLIC OF CHINA
JAPAN
NANKING
SHANGHAI
CHUNGKING
FUKIEN
SIANG
KWEICHOW
HUNAN
YUNNAN
CANTON
TAIPEI
NAHA
TAIWAN
Ryukyu Islands
Okinawa
Bonin
Volcano
Midway Isl.
BURMA
HANOI
LAOS
MACAO
HONGKONG
NORTH VIETNAM
VIENTIANE
Hainan
RANGOON
THAILAND
HUE
SOUTH VIETNAM
BANGKOK
CAMBODIA
PHNOM-PENH
DALAT
SAIGON
S. FERNANDO
LUZON
MANILA
DUMAGUETE CITY
LEYTE
CEBU
ILOILO
BACOLOD
NEGROS
HARAWI CITY
MINDANAO
COTABATO
DAVAO
PHILIPPINES
MARIANA
GUAM
Wake
KAUAI
OAHU
Honolulu
WAILUKU
KAPIOLANI
Hawaii
JOHNSTON
Bikini
Marshall
PALAU
Caroline Isl
Palmyra
Washington
KOTA RADIA
MALAYA
FEDERATION OF MALAYSIA
PENANG
KUALA-LUMPUR
MALACCA
MEDAN
SUMATRA
SINGAPORE
NORTH BORNEO
JESSELTON
SARAWAK
BRUNEI
BORNEO
MENADO
TERNATE
MANOKWARI
CELEBES
PADANG
PONTIANAK
BANDJARMASSIN
SORONG
FAK FAK
WEST IRIAN
NEW GUINEA
WEWAK
RABAUL
PALEMBANG
JAVA
SEMARANG
SURABAJA
DJEMBER
DENPASAR
MAKASSAR
AMBON
MERAUKE
PAPUA
P. MORESBY
DJAKARTA
BANDUNG
JOGJAKARTA
MADIUN
BALI
KUPANG
Timor
HONIARA
Solomon Islands
Gilbert Islands
Canton
Phoenix Islands
Ellice Islands
Caroline
Marquesas
Samoa Isl.
Fiji Islands
SUVA
New Hebrides
NOUMEA
New Caledonia
Tonga Islands
TONGATAPU
Vijte
Palmerston
Cook Isl.
RAROTONGA
Society Islands
Tahiti
PAPEETE
Austral Islands
Pitcairn Isl.
Kermadec
DARWIN
KATHERINE
NORTHERN TERRITORY
TENNANT CREEK
ALICE SPRINGS
MT ISA
CAIRNS
ATHERTON
TOWNSVILLE
QUEENSLAND
LONGREACH
ROCKHAMPTON
GYMPIE
BRISBANE
TOOWOOMBA
SOUTH PORT
WESTERN AUSTRALIA
SOUTH AUSTRALIA
GERALDTON
PERTH
ALBANY
P. LINCOLN
ADELAIDE
BROKEN HILL
NEW SOUTH WALES
PORT PIRIE
LITHGOW
NEWCASTLE
SYDNEY
CANBERRA
VICTORIA
SHEPPARTON
MELBOURNE
LYNDHURST
TASMANIA
LAUNCESTON
HOBART
AUCKLAND
HAMILTON
ROTORUA
NEW PLYMOUTH
WANGANUI
GISBORNE
NEW ZEALAND
NAPIER
PALMERSTON
WELLINGTON
NELSON
GREYMOUTH
CHRISTCHURCH
Chatham Islands
TIMARU
DUNEDIN
INVERCAGILL
HAG 58

Call	kc	kW	Location	
Tasmania				
7ZL[1]	600	10	Hobart	a)
7QN[2]	630	0.2	Queenstown	a)
7NT[2]	710	10	Launceston	a)
7ZR[1]	940	10	Hobart	b)
Northern Territory				
8DR[2]	650	2	Darwin	c)
8KN[2]	670	0.05	Katherine	c)
8TC[2]	680	0.05	Tennant Creek	c)
8AL[2]	1530	0.05	Alice Springs	c)
Papua/New Guinea				
9PA	1250	2	Port Moresby	b)
9RB	810	2	Rabaul	g)

a) 20.00(Sun 20.30)–14.07; b) 20.00(Sun 20.30)–14.00; c) 20.00(Sun 20.30)–14.37; d) 20.00(Sun 20.30)–14.30; e) 22.00(Sun 22.30)–16.07; f) 22.00(Sun 22.30)–16.00; g) 20.00(Sun 20.30)–03.45, 06.15–12.45.

NEWS: **20.00** (2CY, 2FC, 2NR, 3WV, 7ZL, 7ZR); **20.30** (2FC, 2NR, 3WV, 4QN, 7ZL); **20.45** (2CY, 2NR, 2BL, 3WV, 4QR, 5CL, 7ZR); **21.00** (4QN, 5CL); **21.15** (2FC, 7ZL); **21.45** (2CY, 2NR, 2BL, 3WV, 4QR, 5AN, 7ZR); **22.00** (2CY, 2NR, 4QN, 6WA, 6WF, 6WN); **22.15** (5CL); **22.30** (6WA); **22.45** (6WA, 6WF); **23.15** (6WN); **23.45** (6WA, 6WF); **00.00** (6WA); **00.25** (2CY, 2NR, 2BL, 3WV, 4QR, 5AN, 6WA, 6WF, 7ZR); **01.00** (6WA, 6WN); **02.30** (2CY, 2FC, 2NR, 3WV, 6WA, 6WN, 7ZL); **03.00** (2BL, 4QR, 5CL, 6WF, 7ZR); **03.30** (2CY, 2FC, 2NR, 3WV, 7ZL); **03.45** (4QN, 5CL); **04.00** (5AN); **04.30** (6WA, 6WN); **06.00** (2CY, 2FC, 2NR, 3WV, 5CL, 6WA, 6WN, 7ZL); **08.53** (2CY, 2NR, 3WV, 4QN); **09.00** (2CY, 2FC, 2NR, 2BL, 3WV, 4QR, 5CL, 5AN, 6WN, 7ZL, 7ZR); **10.00** (6WA); **11.00** (2CY, 2NR, 3WV, 6WA, 6WN); **12.00** (2FC, 5CL, 7ZL); **13.00** (2CY, 2FC, 2NR, 3WV, 5CL, 6WA, 7ZL); **14.00** (2CY, 2FC, 2NR, 3WV, 6WN, 7ZL); **14.30** (5CL); **15.00** (6WA); **16.00** (6WA).

DOMESTIC SHORT WAVE SERVICE

ADDR: Sydney: A.B.C, Box 487, G.P.O – **Melbourne:** A.B.C, Box 1686, G.P.O – **Brisbane:** A.B.C, Box 293 E, G.P.O – **Perth:** A.B.C, Box 190 D, G.P.O – **Port Moresby:** A.B.C, Box 76, Port Moresby.
STATIONS: Sydney: VLI (2kW) – **Melbourne:** VLH (10kW) & VLR (10kW) – **Brisbane:** VLQ (10kW) & VLM (10kW) – **Perth:** VLW (10kW) & VLX (50kW) – **Port Moresby:** VLT (10kW) & VLK (10kW).

Call	kc	m	h of tr.	
VLI6	6090	49.26	W: 20.00–14.07	Sun: 20.30–14.07
VLH11	11880	25.25	W: 20.00–22.45	Sun: 20.30–22.15
VLH15	15230	19.70	W: 23.00–08.15	Sun: 22.30–08.15
VLH9	9680	30.99	W: 08.30–14.07	Sun: 08.30–14.07
VLR6	6150	48.78	W: 20.00–22.15 08.30–14.00	Sun: 22.30–22.45 08.30–14.00
VLR9	9680	30.99	W: 22.30–08.30	Sun: 23.00–08.30
VLQ9	9660	31.06	W: 20.00–14.07	Sun: 20.30–14.07
VLM4	4920	60.98	W: 20.00–14.07	Sun: 20.30–14.07
VLW6	6140	48.86	W: 22.00–24.00 10.30–16.07	Sun: 22.30–24.00 10.30–16.07
VLW9	9610	31.22	W: 00.15–10.15	Sun: 00.15–10.15
VLX9	9610	31.22	as VLW6	
VLX15	15425	19.45	W: 00.15–10.15	Sun: 00.15–10.15
VLT4	4890	61.35	W: 20.00–22.00 07.30–14.00	Sun: 20.30–22.00 07.30–14.00
VLT9	9520	31.51	W: 22.15–07.15	Sun: 22.15–07.15
VLK3	3925	76.43	as VLT4	
VLK4	4890	61.35	W: 22.15–07.15	Sun: 22.15–07.15

VLR relays 3LO, VLH relays 3AR, VLM relays 4QG, VLI takes N.S.W. regional prgr's, VLQ takes Queensland regional prgr's, VLW and VLX takes We. Australian regional prgr's, VLT and VLK relay 9PA.
N: 20.00(not Sun), 20.30(not Sun), 20.45, 21.15(Sun 21.30), 21.45 (Sun 23.00), 00.25(not Sat/Sun), 02.30, 03.30, 06.00(not Sun), 09.00, 11.00(not Sat), 13.00(BBC & Aust), 14.00 – **Wrp:** included in N, also 22.45(Sun), 02.40(Sat), 02.45(Mon–Fri), 03.48(Mon–Fri), 08.28(Sun), 08.55(Sat) – **T.S:** on the h.
NOTE: Although times are in GMT, calendar days apply to the Ea. States of Aust. only.
ANN: "This is the A.B.C..." – **INT-SIG:** Three Gongs (C.F.A.)
V. by QSL-card and letter. Re. to ABC in capital city of state in which st. is located – **PUB:** "TV Times", "ABC R. Guide", R. Australia Prgr. Guide, Schools Broadcasts booklets, Boyer Lectures.

OVERSEAS SERVICE – RADIO AUSTRALIA

ADDR: Radio Australia, P.O. Box 428G, G.P.O, Melbourne. **Cable:** Newscast. **Te:** 676911.
TRANSMITTERS: The Tr's of STC, AWA and RCA, manufacture are located at Shepparton – 4×100kW, 2×50kW and 1×10kW, and Lyndhurst – 1×10kW, and are capable of operating on any freq. allocated for international broadc. in the 13, 16, 19, 25, 31, 41 and 49 m.b.
NOTE: Radio Australia in common with all international broadc.st's has no assigned freq's, but is allocated certain freq's for use during definite periods.
SERVICES: I: So, So. Ea, So. We. As. **II:** Ea. As, No. Pacific Isl. **III:** So. Pacific Isl. **IV:** Mid-Pacific Isl. **V:** British Isles, Eu. **VI:** No. America (Ea). **VII:** No. America (We). **VIII:** Af.

TRANSMISSIONS OCTOBER 65–APRIL 66

		kc			kc
English					
I:	22.14–23.45	15220	VIII:	04.00–05.15	17820, 15220
	23.45–01.00	17870, 15220	**French**		
	01.00–08.00	21540, 17870	I:	23.15–00.15	17820
	08.00–08.30	17870	IV:	05.15–06.15	15180, 11710
	08.30–09.30	17870, 15220 11880	VIII:	05.15–06.15	17820, 15220
			Indonesian		
	09.30–14.30	11880, 9570	I:	22.45–23.45	17870, 15330 11760
	14.30–17.30	9570, 7220			
II:	20.59–23.00	17820, 15240		06.30–08.30	17820, 15220
	20.59–00.15	15240		10.00–11.30	11740, 7220
	08.59–10.00	11810	**Japanese**		
	11.00–12.12	11810, 9580	II:	10.00–11.00	11810, 9580
III:	18.00–21.15	9600	**Mandarin**		
	06.30–09.15	11710, 9570	I:	11.30–13.30	11740, 7220
IV:	18.00–21.15	11840	**Cantonese**		
	00.29–06.45	15240	I:	13.30–14.30	11740, 7220
	06.59–12.12	7190	**Vietnamese**		
V:	08.14–09.15	11710, 9570	I:	12.30–13.30	11790, 9540
VI:	12.14–13.15	9580	**Thai**		
	01.00–03.45	17840, 15220	I:	13.30–14.30	11790, 9540
VII:	01.00–03.45	17840, 15220			

Freq. are subject to alteration. Details of alterations are given in the transmissions concerned for three days before the effective date and in "Transmission Parade" and "DX-ers Calling".

FIXED PROGRAMMES in English:
N: 00.15, 01.30, 02.30, 03.30, 04.00, 04.30, 05.00, 06.00, 07.00, 08.45 (25/10–27/3), 09.00, 10.00, 11.00, 12.00, 13.00, 14.00, 15.00, 16.00, 17.00, 18.00, 19.00, 20.00, 21.00, 21.45, 22.45, 23.30 – **Mailbags:** Pacific/Asia/Africa Edition: Sat 18.30, 21.15, Sun 01.00, 04.10, 05.30, 11.30, 16.45; British Isles/European Edition: Sun 06.45(08.30 25/10–21/3), No. America Edition: Sun 12.30, Mon 01.10, 03.00.

DX Programme: Sat 19.00(III, IV), 22.00(II), Sun 05.00(VIII), 09.00 (V) (May–October 07.15), 13.00(VI), 15.30(I+V), Mon 02.15(VI +VII) – **Request Prgr: Listener's Choice:** Sun 11.10, D 14.30. **Music by Request:** Sun 00.30, W 00.40. **Sport:** Results W 08.30. Descriptions and results of major sports events in Australia Sat 02.29–07.30 on 21540kc to I – **Stock Exchange:** Fri 08.45, 13.00, 14.20, Sat 02.00.

National Music: Music by Australian artists and composers is broadc. regularly in all Tr's – **Programme Previews:** A preview is given at the start of each daily tr. and three min. before the close of tr. to the resp. areas – **Transmission Parade:** Fri 20.40, 22.10, Sat 05.45, 14.25.

FIXED PROGRAMMES in other languages:

FRENCH: N: 23.30, 05.30 – **N. Commentary:** Tues–Sat 23.42, 05.42. **Mailbag:** Sun 00.00, 05.45.

INDONESIAN: N: 23.15, 06.45, 08.00, 10.10, 11.00 – **Mailbag:** Sun 07.15, 10.30. **"English Lessons for Indonesians":** Tues, Thurs 07.00, 10.30

JAPANESE: N: 10.30. **Mailbag:** Sun 10.10 – **DX-Session:** Sun 10.45 – **Commentary:** Mon–Fri 10.42.

MANDARIN: N: 11.45, 13.15. **N, Commentary:** Mon–Fri 11.57 – **Mailbag:** Sun 12.30.

CANTONESE: N: 14.00 – **Commentary:** Mon–Fri 14.12 – **Storyteller:** Sat 13.40.

THAI: N: 14.00. **Commentary:** Mon–Fri 14.15 – **Mailbag:** Sun 13.45. **English Lessons for Thailand:** Fri 13.32.

VIETNAMESE: N: 13.00. **Commentary:** Mon–Fri 13.15 – **Mailbag:** Sun 12.40.

ANN: "This is Radio Australia transmitting the Overseas Service from the Melbourne studios of the A.B.C." – "You are tuned to Radio Australia, the Overseas Service of the A.B.C." Freq's are given at frequent intervals.
TUNING AND INT-SIG: Celeste playing "Waltzing Matilda" for five min. preceding prgr's to all areas: Prgr's commence with chimes of Elizabeth Street Post Office Clock and the laugh of the Australian bird, the Kookaburra.
V: Listeners reports are welcomed and correct reports are confirmed by verification card.

PUB: A prgr. booklet is available free upon application.

PRIVATELY OWNED COMMERCIAL BROADCASTING STATIONS

Associated in a body called: **Federation of Australian Commercial Broadcasters. ADDR:** 47, York Street, Sydney – **Te:** 29-1738. **Cable:** AFOBS – **L.P:** Federal Dir: E. L. Sommerlad. Exec. Secretary: H. M. Goodsall. Also Promotion and Research Organization "Australian Radio Advertising Bureau", 47 York Str., Sydney. **Te:** 29-1738. **The Australian Broadcasting Control Board** is a Go. Authority responsible for the planning of the broadc.sce's ensuring that technical equipment and prgr.sce's are of adequate standards and determining power, frequency and periods of operating of st's. **Addr:** 373 Elizabeth

Str, Melbourne, C.1. Cable: Conboard. Te: 30-4321 – L.P: Chmn: R. G. Osborne. Secr: J. A. McNamara. Dir. Tec: A. J. McKenzie. Dir. Prgr: D. A. Jose.

2CH is controlled by the New South Wales Council of Churches, **2SM** by the Roman Catholic Church, **5KA** and **5AU** by the Methodist church.

Abbreviations: Amalg=Amalgamated, Ass=Associated, Me=Melbourne, B.Casters=Broadcasters, Transc=Transcontinental.

Note: Times quoted are GMT, but refer to local calender days. Times given are Mon–Fri. Sat & Sun times not indicated.

NEW SOUTH WALES: Call letter: 2––.

Call	kc	kW	Tr.times	Call	kc	kW	Tr.times
1) KM	530	2	19.00–13.30	20) DU	1250	2	19.30–14.00
2) BH	660	0.2	20.00–13.00	21) SM	1270	5	24 h.
3) KA	780	2	19.00–12.30	22) TM	1290	2	20.00–13.00
4) GB	870	5	24 h.	23) LF	1340	2	20.00–13.05
5) LM	900	2/1	20.00–12.30	24) NX	1360	2	19.30–14.00
6) XL	920	2/1	24 h.	25) LT	1370	0.5	19.30–12.30
7) UE	950	5	24 h.	26) GN	1380	2	20.00–13.00
8) GZ	990	2	19.55–13.30	27) PK	1400	2	20.00–13.00
9) KY	1020	5	24 h.	28) KO	1410	2	24 h.
10) CA	1050	2	19.30–14.00	29) WL	1430	2	19.00–14.00
11) RG	1070	2/1	20.00–13.00	30) MW	1440	2	19.30–13.00
12) MO	1080	2/1	20.00–13.05	31) MG	1450	1	20.00–13.10
13) UW	1110	5	24 h.	24) NM	1460	0.5	19.30–14.00
14) AD	1130	2	20.00–13.30	33) BE	1480	1	20.30–13.30
15) HD	1140	2	24 h.	34) AY	1490	2	20.00–13.30
16) WG	1150	2	19.30–14.00	35) BS	1500	2	20.00–13.30
17) CH	1170	5	19.20–14.00	36) QN	1520	2	20.00–12.30
18) NZ	1190	2	19.30–13.00	37) VM	1530	2/0.5	19.00–14.00
19) GF	1210	2	19.30–13.15	38) RE	1560	2/0.5	19.30–12.30

VICTORIA: Call letter: 3–––.

39) UL	530	2/1	19.30–13.30	42) HA	1000	2	19.00–13.30
40) UZ	930	5	24 h.	43) DB	1030	5	24 h.
41) BO	960	2	19.30–14.00	43) LK	1090	2	19.30–15.00
44) CS	1130	2	20.00–12.30	52) GL	1350	2	19.30–13.00
45) KZ	1180	5	19.30–13.30	53) XY	1420	5	24 h.
46) YB	1210	2	19.30–13.30	54) CV	1440	2	19.00–13.00
47) TR	1240	2	19.00–14.00	55) MA	1470	2	20.00–12.30
49) AW	1280	5	18.30–15.00	56) AK	1500	5	20.00–09.00 (Su) 21.00–08.00(Wi)
50) BA	1320	2	19.30–14.00				
51) SH	1330	2	20.00–13.05	57) NE	1600	2/1	19.00–14.00

QUEENSLAND: Call letter: 4–––.

58) KQ	690	2	24 h	69) BC	1120	2	24 h
59) TO	780	2	19.30–13.30	70) MB	1160	2	19.30–13.00
60) GR	860	2	19.30–13.00	71) AK	1220	2	19.00–13.00
61) WK	880	2/1	20.00–12.30	71) BK	1300	2	19.00–13.00
62) VL	920	2/1	20.00–12.30	72) NA	1320	2	19.30–12.00
63) AY	960	2	19.30–13.30	73) BU	1330	2	19.30–12.30
64) RO	1000	2	19.30–13.00	74) GY	1350	2/1	19.30–12.15
65) CA	1010	2	20.00–13.00	75) LM	1370	2	20.00–13.00
66) IP	1010	2	19.30–12.30	76) MK	1380	2	19.30–12.30
67) SB	1060	2	20.00–12.30	77) BH	1390	2	19.00–14.00
68) LG	1100	2	20.00–04.30 07.00–12.00	78) ZR	1480	2/1	20.00–12.30

SOUTH AUSTRALIA: Call letter: 5–––.

79) RM	800	2	19.30–13.00	81) AD	1310	2	24 h
80) DN	970	2	24 h	81) SE	1370	0.5	20.00–13.45
81) PI	1040	2	20.00–13.45	83) AU	1450	2	20.00–13.30
82) KA	1200	2	24 h	81) MU	1460	0.5	20.00–13.45

WESTERN AUSTRALIA: Call letter: 6–––.

84) VA	780	2	22.00–14.30	85) PM	1000	2	22.00–15.00
85) AM	860	2	21.45–15.00	85) GE	1010	2	21.55–06.00
86) PR	880	2	21.00–17.00				09.00–14.30
87) BY	900	2	22.00–14.30	87) WB	1070	2	22.00–14.30
88) NA	920	2	22.00–15.45	87) IX	1080	2	24 h
89) TZ	960	2	21.00–15.00	87) MD	1100	2	22.00–14.30
85) KG	980	2	22.00–07.00 08.30–14.30	86) CI	1130	2	21.00–15.00
				90) KY	1210	2	24 h

TASMANIA: Call letter: 7---.

	Call	kc	kW	Tr.times		Call	kc	kW	Tr.times
91)	SD	540	2	21.00–12.15	95)	AD	900	0.5	20.30–13.00
92)	BU	560	0.5	20.00–12.30	96)	EX	1010	2	24 h
93)	QT	720	0.5	20.45–03.00	97)	HT	1080	2	19.30–14.00
				06.00–12.30	98)	LA	1100	2	19.30–14.00
94)	HO	360	2	19.00–14.00					

NORTHERN TERRITORY: Call letter: 8---.
99) DN 1240 2 20.00–13.30

1) **R. Kempsey Ltd**, P.O. Box 2236, West Kempsey. **L.P:** Mgr: L. B. Harte. V. by QSL-card. Rp.
2) **Broadc. St. 2BH**, P.O. Box 432, Broken Hill. **L.P:** St. Mgr: J. W. Prider. V. by QSL-card.
3) **Transcontinental Broadc. Corp. Ltd**, Rural Bank Bldg, Katoomba St, Katoomba. **L.P:** St. Mgr: R. W. Hood. **N:** Every h on the h at 19.00–08.00, also at 19.30, 20.30, 21.30, 22.30, 10.00, 11.00. **ANN:** "R. 2KA, The Voice of the Mountains". V. by letter. Recordings accepted.
4) **Broadc. St. 2GB Pty Ltd**, 136 Phillip St, Sydney. **L.P:** St. Mgr: D. L. Foster. **N:** every h on the h exc. 09.00; also at 19.30, 20.30, 21.30, 22.30, 06.30, 07.30, 08.30. **V:** by card and/or letter. Rp.
5) **Richmond River B. Casters Pty Ltd**, Bruxner Highway, Goonellabah, Lismore. **L.P:** St. Mgr: P. Le Brun.
6) **Cooma B. Casters Pty Ltd**, P.O. Box 58, Cooma. **L.P:** Man. Dir: J. S. Scott. **Ann:** "The Voice of the So. Ea. Australia". V. by QSL-card.
7) **R. 2UE Sydney Pty Ltd**, 29 Bligh St, Sydney. **L.P:** Gen. Mgr: A. D. Faulkner.
8) **Country Broadc. Sce. Ltd**, P.O. Box 465, Orange. **L.P:** Gen. Mgr: A. Ridley. **N:** on the h. **Ann:** "2GZ Central New South Wales". V. by letter.
9) **Labour Council of New South Wales**, Broadc. St. 2KY, 32 Orwell St, Pott's Point, Sydney. **L.P:** Mgr: L. R. Hood.
10) **Canberra B. Casters Pty Ltd**, 64 Northbourne Ave, Canberra City. **L.P:** St. Mgr: P. R. Carrodus. V. by QSL-card.
11) **2RG B. Casters Pty Ltd**, Ulong St, Griffith. **L.P:** St. Mgr: W. R. Gamble. V. by letter.
12) **2MO Gunnedah Pty Ltd**, P.O. Box 62, Gunnedah. **L.P:** St. Mgr: L. Worms. **N:** Every h on the h at 20.00–12.00, and at 21.30, 02.30, 08.30. V. by letter.
13) **Commonwealth Broadc. Corp. Pty Ltd**, 365 Kent St, Sydney. **L.P:** Gen. Mgr: L. C. Hynes. **N:** Every half h at 20.00–23.00 and at 02.00, 08.00, 12.00. V. by letter.
14) **New England B. Casters Pty Ltd**, 123 Rusden St, Armidale. **L.P:** Mgr: R. V. Brislan.
15) **Airsales Broadc. Pty Ltd**, P.O. Box 19, Mayfield. **L.P:** St. Mgr: O. J. Story. V. by QSL-card.
16) **Riverina B. Casters (Holdings) Pty Ltd**, 16, Fitzmaurice St, Wagga Wagga. **L.P:** St. Mgr: J. McCormick. **N:** 20.00, 20.30, 21.00, 21.30, 22.00, 22.30, 23.00, 24.00, 01.00, 02.30, 03.00, 03.30, 04.00, 05.00, 06.00, 07.00, 08.00, 08.45, 11.00, 12.00, 13.00. V. by letter.
17) **Broadc. St. 2CH** (Owner: NSW Council of Churches). Operated by Amalgamated Wireless (A/asia) Ltd. **Addr:** 47 York St, Sydney. **Te:** 20233. **L.P:** St. Mgr: H. R. Huntley. **N:** Every h on the h. **Ann:** "This is 2CH Sydney, the A.W.A. station". V. by QSL-card. Rp.
18) **Northern B. Casters Pty Ltd**, Otho St, Inverell. **L.P:** St. Mgr: J. W. Twyford.
19) **Grafton Broadc. Co. Ltd**, 124 Prince St, Grafton. **Te:** 946. **L.P:** Mgr: K. J. Armour. **N.** Every h on the h; also at 19.30, 20.30, 21.45, 22.30, 02.45, 08.30. V. by letter.
20) **Western B. Casters Pty Ltd**, P.O. Box 44, Dubbo. **L.P:** St. Mgr: C. Grant. V. by QSL-card.
21) **Broadc. St. 2SM Pty Ltd**, 257 Clarence St, Sydney. **Te:** 295381. **L.P:** Gen. Mgr: W. H. Stephenson. **N:** Every half h. V. by QSL-card.
22) **Tamworth R. Development Co. Pty Ltd**, P.O. Box 21, So. Tamworth, NSW. **L.P:** Man. Dir: E. Higginbotham. V. by QSL-card.
23) **Young B. Casters Pty Ltd**, 24 Lovell St, Young. **Cable:** Twolf. **L.P:** St. Mgr: J. H. Finlayson. **N:** 20.00, 20.30, 21.00, 21.30, 22.00, 24.00, 01.00, 02.00, 02.30, 03.15, 04.00, 05.00, 06.00, 07.00, 08.00, 08.30, 10.00, 11.00, 12.00, 13.00. **Ann:** "This is 2LF the friendly st". V. by QSL-card.
24) **Hunter B. Casters Pty Ltd**, Box 96, Muswellbrook. **Cable:** Twonx. **L.P:** Gen. Mgr: K. C. Robinson V. by QSL-card. Rp.
25) **Lithgow B. Casters Pty Ltd**, Great Western Highway, Bowenfells. **L.P:** St. Mgr: F. Harper. **N:** Every half h. V. by QSL-card.
26) **Goulburn Broadc. Co. Pty Ltd**, P.O. Box 115, Goulburn. **Cable:** Twogn. **L.P:** St. Mgr: D. H. O'Reilly. V. by letter. Rp.
27) **Parkes Broadc. Co. Pty Ltd**, 307 Clarinda St, Parkes. **L.P:** Mgr: N. T. W. Spicer.
28) **Radio 2KO Newcastle Pty Ltd**, 110 Hunter St, Newcastle. **Cable:** Twoko. **L.P:** Gen. Mgr: C. J. Derwin. **D. Prgr:** N: Every half h at 19.00–23.00, hourly 23.00–13.00. V. by QSL-card.
29) **Wollongong Broadc. Pty Ltd**, P.O. Box 34, Wollongong. **Cable:** Twowl. **L.P:** Gen. Mgr: D. Jackson. **N:** W. 19.30, 19.54*, 20.30, 20.54*, 21.30, 22.15*, 00.00(Sat), 01.00, 02.00(Sat), 02.30, 03.15*, 04.30*, 05.00*, 06.00*, 08.00*, 08.25*, 08.45, 11.30*, 12.00*, 13.00, 13.50, (*=not Sat). **Sun:** 21.30, 22.30, 02.30, 08.45, 11.30. V. by letter. Rp. preferred. Re. from listeners in NWS will not be verified. **Pub:** Prgr. schedule free.
30) **Tweed R. & Broadc. Co. Pty Ltd**, P.O. Box 53, Murwillumbah. **Te:** 888. **L.P:** St. Mgr: W. A. G. Diamond. **N:** On the h from 20.00; also at 21.45, 02.30, 08.30. V. by QSL-card. Rp.
31) **Mudgee Broadc. Co. Pty Ltd**, Wellington Rd, Mudgee. **L.P:** Man. Dir: R. B. Camplin. **N:** Every h. V. by QSL-card or letter. Rp. Recordings accepted.
32) **Hunter B. Casters Pty Ltd**, 62 Bridge St, Muswellbrook. **L.P:** Mgr: S. T. O'Shea.
33) **R. 2BE Pty Ltd**, P.O. Box 77, Bega. **L.P:** Gen. Mgr: J. A. Kerr. V. by letter. Rp.
34 **Amalgamated Wireless (A'sia) Ltd**, Healings Bldg, Dean St, Albury. **L.P:** St. Mgr: E. J. Pattison.
35) **Bathurst B. Casters Pty Ltd**, 109 George St, Bathurst. **Cable:** Twobs. **L.P:** Mgr: W. P. Tuohey. **Ann:** "2BS Centre of the West". V. by QSL-card.
36) **Haig-Muir Broadc. Pty Ltd**, 368 George St, Deniliquin. **L.P:** St. Mgr: P. N. Charley. **N:** 21.00 (W), 21.30 (W), 22.00 (W), 22.30, 02.30, 03.30 (W), 06.00 (W), 08.30, 09.15. **Ann:** "2QN The Happy Station". V. by QSL-card.
37) **Moree Broadc. & Development Co. Ltd.** 93 Balo St, Moree. **L.P:** St. Mgr: R. E. Morrisby. V. by letter. Rp.
38) **Manning Valley Broadc. Pty Ltd**, P.O. Box 185, Taree. **L.P:** St. Mgr: A. W. Thompson. V. by card and letter.

39) **Associated Broadc. Sce's Ltd**, 43 Victoria St, Warragul. **Te:** 21431. **L.P:** St. Mgr: C. Cameron. **N:** 20.00, 20.30, 21.00, 21.45, 22.30, 23.00, 00.00, 01.00, 02.00, 02.30, 03.30, 04.00, 05.00, 05.30, 06.00, 07.00, 08.00, 08.30, 09.30, 10.00, 12.00, 13.00. **DX-Prgr:** "World at your fingertips" Thurs 13.00 (NZ. DX Club prgr). **Ann:** "3UL Central Gippsland, the Station with The Happiest Listeners". V. by QSL-card.
40) **Nilsen's Broadc. Sce. Pty Ltd**, 45 Bourke St, Melbourne. **L.P:** St. Mgr: L. Bennett. V. by QSL-card.

41) **Amalgamated Wireless (A'sia)**, Pall Mall, Bendigo. **Cable:** Threebo. **L.P:** St. Mgr: A. P. Scown. **N:** 19.30, 20.00, 20.30, 20.45, 21.30, 21.45, 22.30, 23.30, 00.30, 01.30, 02.30, 03.30, 04.30, 05.30, 06.30, 07.30, 08.00, 08.50, 12.00, 13.30. V. by letter. Rp.
42) **W. B. N. Ltd**, 37 Gray St, Hamilton. **L.P:** St. Mgr: K. Barnes.
43) **Herald Sun Stations**, 61 Flinders Lane, Melbourne C. 1. **Cable:** Threedb. **L.P:** Mgr: R. C. Crawford. **N:** 20.00. 21.00, 21.45, 02.30, 08.00, 09.00, 12.00, 13.00. **Ann:** "3DB Melbourne, 3LK Cen. Victoria, the Herald-Sun Stations". V. by QSL-card.
44) **Colac Broadc. Co. Pty Ltd**, 241 Murray St, Colac. **L.P:** St. Mgr: C. S. Faulkner. **N:** Tues-Sat 21.45, 22.05, 22.30, 02.30, 03.15*, 08.30, 11.00*, (*=not Sat). Sun 22.45, 02.30, 08.30, 11.00. Mon 21.45, 02.30, 03.15, 08.30, 11.00. V. by QSL-card. Rp.
45) **3KZ Broadc. Co. Pty Ltd**, 64 Elizabeth St, Melbourne. **Cable:** Threekz. **L.P:** St. Mgr: L. J. Hyle. **N:** Every half h. **Ann:** "The Brighter Broadc. Sce, 3KZ Melbourne". V. by letter.

46) **Associated Broadc. Sce. Ltd**, Liebig St, Warrnambool. **Te:** 8088. **L.P:** St. Mgr: E. R. Collings. **N:** 20.15, 21.15, 21.45, 22.30, 01.00, 02.15, 03.30, 08.30, 12.00, 13.15. V. by QSL-card. Recordings accepted.
47) **W. B. N. Ltd**, Stawell St, Sale. **L.P:** St. Mgr: E. W. Evans.
48) **Associated Broadc. Service Ltd**, 368–70 Wyndham St, Shepparton. **L.P:** St. Mgr: E. M. Clyne. V. by letter.
49) **3AW Broadc. Co. Pty Ltd**, 374 Latrobe St, Melbourne. **Cable:** Threeaw. **L.P:** Gen. Mgr: M. F. E. Wright. **N:** Every half h.
50) **Ballarat B. Casters Pty Ltd**, Box 360, Ballarat. **Te:** 25068. **L.P:** St. Mgr: E. J. W. Whykes. **N:** On the h exc. 22.00; also at 21.30, 22.30, 02.30, 12.30, 13.30. V. by QSL-card. Rp.
51) **V. B. N. Ltd**, 77 McCallum St, Swan Hill. **L.P:** St. Mgr: H. Lithgow. V. by QSL-card. Rp.
52) **Geelong B. Casters Pty Ltd**, 191 Ryrie St, Geelong. **Cable:** Threegl. **L.P:** Gen. Mgr: J. Mc. D. Morwood. **N:** 19.35, 20.00, 21.45, 23.00, 00.00, 01.00, 02.00, 02.30, every h on the h from 04.00 to 12.00, 12.45. V. by QSL-card. Rp.
53) **Efftee B. Casters Pty Ltd**, 222 Faraday St, Melbourne. **Cable:** Threexy. **L.P:** Gen. Mgr: R. J. Baeck. **N:** Every h on the h. V. by QSL-card.

54) **V. B. N. Ltd**, P.O. Box 79, Maryborough. **L.P:** St. Mgr: Ken J. Parker. V. by letter. Rp.
55) **Sunraysia B. Casters Pty Ltd**, P.O. Box 539, Mildura. **L.P:** St. Mgr: M. Folie. V. by letter.
56) **General Television Corpo Pty Ltd**, P.O. Box 100, Richmond. **L.P:** St. Mgr: N. Dick. **D. Prgr:** 16/4–15/8: 21.00–07.00; 16/8–15/10: 21.00–08.00; 16/10–15/2: 20.00–09.00; 16/2–15/4: 20.00–08.00. **N:** Every h and half h. **Ann:** "3AK, The Voice of Television City". V. by QSL-card.
57) **Wangaratta Broadc. Co. Pty Ltd**, P.O. Box 167, Wangaratta. **Cable:** Threene. **L.P:** Man. Dir: D. C. De La Rue. **Ann:** "The Voice of the No. Ea. Victoria". V. by card and letter. Rp.

58) **Labor Broadc. St. Pty Ltd**, Box 398F, GPO, Brisbane. **Cable:** Fourq. **L.P:** Gen. Mgr: L. W. Beioley. **N:** 21.45, 22.45, 00.25, 02.30, 03.30, 06.00, 07.00, 12.00, 13.10, 14.00. V. by letter.

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59) **Amalgamated Wireless (A'sia) Ltd**, Stanley St, Townsville. **Cable:** Fourto. **L.P:** St. Mgr: K. Duncan.
60) **Gold Radio Sce. Pty Ltd**, 453 Ruthven St, Toowoomba. **L.P:** St. Mgr: R. Stevenson. **V.** by letter. Rp.
61) **Warwick Broadc. Co. Pty Ltd**, Palmerin St, Warwick. **Cable:** Fourwk. **L.P:** St. Mgr: W. O. Kinane. **V.** by letter. Rp.
62) **Charleville Broadc. Co. Pty Ltd'** P.O. Box 84, Charleville. **L.P:** St. Mgr: W. D. Everson. **V.** by QSL-card.
63) **Ayr. B. Casters Pty Ltd**, P.O. Box 880, Townsville. **Cable:** Fouray. **L.P:** St. Mgr: G. T. Schmid. **V.** by letter. Rp.
64) **Rockhampton Broadc. Co. Pty Ltd**, East St, Rockhampton. **Cable:** Fourro. **L.P:** St. Mgr: E. J. Rheuben. **V.** by letter.
65) **Amalgamated Wireless (A'sia) Ltd**, Shields St, Cairns. **L.P:** St. Mgr: J. M. Dower.
66) **So. Queensland Broadc. Corp. Pty Ltd**, P.O. Box 165, Ipswich. **Cable:** Fourip. **L.P:** Gen. Mgr: A. Brandt. **D. Prgr:** N: 20.15, 20.45, 21.15, 21.45, 00.30, 02.30, 04.30, 05.55, 09.00, 12.00. **Ann:** "This is Colour R. 4IP in So. Ea. Queensland, 1010 on your dial". **V.** by QSL-card.
67) **So. Burnett Broadc. Co. Ltd**, P.O. Box 305, Kingaroy. **Cable:** Foursb. **L.P:** St. Mgr: G. H. Parker. **N:** 20.00, 20.15, 03.30, 05.30, 06.00, 07.00, 07.45. **V.** by QSL-card. Rp.
68) **Ce. Queensland Broadc. Corp. Pty Ltd**, Box 20, Longreach. **Cable:** Fourlg. **L.P:** St. Mgr: W. L. Rowlands. **N:** 20.20, 20.45, 21.45, 02.30, 03.30, 09.00, 11.00. **Ann:** "This is R. 4LG Longreach, key st. of the Ce. Queensland Broadc. Network". **V.** by letter.
69) **Commonwealth Broadc. Corp (Qld) Ltd**, Cnr. Wharf and Adelaide St, Brisbane. **L.P:** St. Mgr: M. E. Baker. **V.** by letter.
70) **Maryborough Broadc. Co. Pty Ltd**, 363 Kent St, Maryborough. **Cable:** Fourmb. **L.P:** St. Mgr: A. P.Wynne. **V.** by card & letter. Rp.
71) **Queensland Newspapers Pty Ltd**, 93 Queen St, Brisbane. **Cable:** Fourbk. **L.P:** Gen. Mgr: H. I. Marshall. **N:** 19.30, 20.00, 20.25, 20.45, 21.45, 02.30, 04.30, 05.55, 09.00, 12.00. **V.** by QSL-card. Rp.
72) **Maroochy Broadc. Co. Ltd**, 161 Currie St, Nambour. **L.P:** St. Mgr: R. J. Taylor. **N:** 20.00, 20.45, 21.05, 00.25, 02.30, 03.30, 09.00, 11.00. **V.** by QSL-card. Rp.
73) **Bundaberg B.Casters Pty Ltd**, 55 Woongarra St, Bundaberg. **L.P:** St. Mgr: G. McCormack. **V.** by QSL-card.
74) **Gympie Broadc. Co. Ltd**, 98 Mary St, Gympie. **L.P:** St. Mgr: A. H. Buzacott. **V.** by letter. Rp.
75) **No. Queensland Broadc. Corp. Pty Ltd**, P.O. Box 432, Mount Isa. **L.P:** St. Mgr: G. D. Atthow. **N:** 20.00, 20.45, 21.45, 02.30, 03.30, 06.00, 09.00, 11.00. **V.** by letter.
76) **Mackay Broadc. Sce. Pty Ltd**, 38 Gordon St, Mackay. **Cable:** Fourmk. **L.P:** Gen. Mgr: M. E. Low. **Ann:** "The Voice of the Barrier Reef". **V.** by QSL-card.
77) **B.Casters (Aust) Pty Ltd**, 43, Adelaide St, Brisbane. **Cable:** Fourbh. **L.P:** Mgr: N. Llewelyn. **V.** by QSL-card. Rp.
78) **Maranoa Broadc. Co. Ltd**, P.O. Box 22, Roma, Qld. **L.P:** St. Mgr: C. R. Taylor.

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79) **River Murray B.Casters Ltd**, P.O. Box 118, Berri. **L.P:** Mgr: R. Bradley. **N:** Mon–Fri Every h on the half h. Sat 20.30, 21.30, 22.30, 23.30, 00.30, 02.30, 09.30. Sun 22.30, 02.30, 09.15, 12.30. **V.** by QSL-card.
80) **Hume B.Casters Ltd**, 201–205 Tynte St, No. Adelaide. **L.P:** St. Mgr: J. S. Larkin. **N:** Every h on the half h.
81) **Advertiser Broadc. Network**, G.P.O. Box 392, Adelaide. **Cable:** Fivead. **L.P:** Mgr: J. M. Fowler. **N:** 22.00, 02.30, 09.30, 12.30; 5AD=Adelaide, 5PI=Central, 5MU=Eastern, 5SE=So. We. So. Australia. **V.** by QSL-card.
82) **5KA B.Casters Pty Ltd**, 43 Franklin St, Adelaide. **Cable:** Fiveka. **L.P:** Gen. Mgr: K. R. Parham. **V.** by QSL-card. Rp.
83) **5AU B.Casters Pty Ltd**, P.O. Box 247, Port Augusta. **L.P:** St. Mgr: N. W. Bradley. **N:** Every half h 20.00–23.30 and at 00.30, 01.30, 03.00, 03.30, 04.30, 05.30, 06.30, 07.30, 08.30, 09.30, 10.30, 11.30, 12.30. **V.** by QSL-card. Rp.

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84) **Albany B.Casters Ltd**, 167 York St, Albany. **Cable:** Sixva. **L.P:** St. Mgr: G. R. Furlong. **V.** by letter.
85) **Whitfords Broadc. Network**, 115 St. Georges Terrace, Perth. **Te:** 21.22.01. **Cable:** Whitnet. **L.P:** St. Mgr: D. E. Muir. Chief. Eng: H. A. Taylor. **St's:** 6AM Northam, 6KG Kalgoorlie, 6PM Perth, 6GE Geraldton. **D.Prgr's:** 6PM/AM only. **Italian:** Wed 10.45–11.30, Thurs 10.30–11.30, Fri 05.00–05.45. **Greek:** Fri 11.00–11.30. **V.** by QSL-card. Recordings accepted.
86) **Nicholson's Broadc. Sce. Pty Ltd**, 340 Hay St, Perth. **L.P:** Gen. Mgr: G. C. Lewis. **N:** on the h, also at 19.30, 20.30, 21.30, 22.30, 02.30. **Italian:** Wed 11.45–12.00, Thurs 12.00–13.00. **V.** by letter. Rp. Recordings accepted.
87) **W.A. B.Casters Pty Ltd**, 38 Mounts Bay Rd, Perth. **L.P:** St. Mgr: J. T. Hunn. **Italian** (6IX only): Fri 08.00–09.00, Sun 23.25–01.00, Mon 13.00–13.30. **V.** by letter. Rp.
88) **Westland Broadc. Co. Ltd**, Narrogin, We. Australia. **L.P:** Gen. Mgr: J. W. Hugall. (Rel. 6KY, Perth). **N:** On the h. **V.** by QSL-card. Rp.
89) **Broadc. St. 6TZ**, 127 Victoria St, Bunbury. **L.P:** St. Mgr: P. Nash. St. relaying 6CI (Collie) of 86). Prepared card and rp. required for V.
90) **Westland Broadc. Co. Ltd**, 17 James St, Perth. **Cable:** Sixky. **L.P:** Gen. Mgr: J. W. Hugall. **N:** On the h. **V.** by QSL-card. Rp.

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91) **N.E. Tasmanian R. B.Casters Pty Ltd**, P.O. Box 109, Scottsdale. **Cable:** Sevensd. **L.P:** St. Mgr: B. Scetrine. **V.** by QSL-card.
92) **Burnie Broadc. Sce Pty Ltd**, P.O. Box 120, Burnie. **Cable:** Sevenbu. **L.P:** Gen. Mgr: T. Lord.
93) **We. Coast B.Casters Pty Ltd**, P.O. Box 315, Queenstown. **L.P:** Mgr: H. Ebrall.
94) **Comm. B.Casters Pty Ltd**, G.P.O. Box 542F, Hobart. **Te:** 80321. **Cable:** Sevenho. **L.P:** Mgr: A. Brown. **N:** Every h on the h and at 19.30, 20.30, 21.30, 22.30, 02.30, 03.30, 08.30. **V.** by QSL-card and letter.
95) **N. Tasmania B.Casters Pty Ltd**, P.O. Box 18, Devonport. **Cable:** Sevenad. **L.P:** Mgr: M. Evans.
96) **7EX Pty Ltd**, Watchorn St, Launceston. **Cable:** Sevenex. **L.P:** Mgr: A. E. McClelland.
97) **Metropolitan B.Casters Pty Ltd**, G.P.O. Box 572F, Hobart. **Cable:** Sevenht. **L.P:** St. Mgr: J. Howell. **N:** W: 20.00, 20.55, 21.45, 02.30, 09.00, 12.00*, 13.50* (*=not Sat); Sun 23.00, 02.30, 09.00, 12.00, 13.45. **V.** by letter. Rp.
98) **Findlay & Wills B.Casters Pty Ltd**, Quadrant House, The Quadrant, Launceston. **Cable:** Sevilia. **L.P:** Gen. Mgr: R. E. Ward. **N:** Every half h at 19.45–21.45, 22.30, 00.30, 02.30, 03.30, 05.30, 08.45, 11.00, 12.00, 13.00. **V.** by QSL-card. Rp.

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99) **Darwin B.Casters Pty Ltd**, 16 Smith St. West, Darwin. **L.P:** St. Mgr: D. H. Charlton. **V.** by letter. Rp.

COOK ISLANDS (N.Z. Territory)

L.T: GMT−10 1/2 h – **Pr.L:** English Maori.

RADIO RAROTONGA (Gov.)

ADDR: Rarotonga. **Te:** 24 – **L.P:** Officer in charge: P. F. Henderson. Dir. Tec: S. Kingan.

STATIONS: mw: 0.15kW, sw=0.25kW.

Call	kc	m	Call	kc	m	Call	kc	m
ZK1ZA	820	365.9	ZK5	5045	59.46	ZK4	11760	25.51
ZK6	3265	91.87	ZK3	9695	30.94			

HOME SCE. in English, Maori: Mon, Tues, Thurs, Fri 22.45–23.15 on 820/9695kc. Tues 04.30–07.40. Thurs 04.30–08.15, Sat 04.30–07.50 on 820/5054kc – **N: English:** 22.45, 04.32, 07.30 (rel. R. New Zealand) 07.40(Tues), 08.15(Thurs), 07.40(Sat). **Maori:** 22.55, 05.30.

ANN: "This is ZK1ZA R. Rarotonga" – **INT-SIG:** Cook Islands Drum Beats – **V.** by QSL-card. Rp.

FIJI (British)

L.T: GMT+12 h – **Pr.L:** English, Fijian, Hindustani.

FIJI BROADCASTING COMMISSION

(Independent Statutory Body, 50% comm. 50% cultural)

FI: By license payments and adv – **ADDR:** P.O. Box 334, Suva. **Cable:** Broadcom. **Te:** 22621 – **L.P:** Chmn: J. M. Hedstrom, LLB. Mgr: G. M. Cullen. Dep. Mgr: G. H. King. Prgr. Organiser: P. B. Sloan. Adv. Mgr: G. Bezar. Dir. Tec: T. C. Agar.

STATIONS (System AWA). Sat 11.00.

Call	kc	m	kW	L	h of tr.
VRH	710	422	5	English	18.00–10.30*
VRH3	890	337	2.5	English/Hindi	18.00–10.30*
VRH2	930	323	3	Vernaculars	18.00–10.30*
VRH11	1320	227	1	English	20.00–24.00(Sun)
VRH8	3230	9300	10	English	Freq's and times used seasonally
VRH9	3284	91.35	10	Vernaculars	
VRH12	3935	76.24	0.4	English	
VRH13	3980	75.38	0.4	Vernaculars	18.00–10.30*
VRH4	4756	63.08	10	English	
VRH5	4785	62.70	10	Vernaculars	
VRH6	5955	50.39	0.4	English	
VRH7	6005	49.96	0.4	Vernaculars	

HOME SCE. in English, Fijian, Hindi: W 18.00–10.30(Sat 11.00), Sun 18.00–10.30. **English:** N: 18.15, 19.00(BBC), 19.45, 20.00(BBC), 01.00 (R. New Zealand), 01.30 (R. Australia), 07.00, 09.00 (ABC) – **Local N. in Fijian:** W 18.15, 19.45, 01.15, 07.10 – **Wrp:** 19.00, 20.00, 01.30, 07.00 – **ANN:** E: "This is the Fiji Broadc. Commission". Fijian: "Oqo na Fiji Broadc. Commission". Hindi: "Yeh Fiji Broadc. Commission Hai" – **INT-SIG:** Beat of Fijian Lali (Log Drum).

GILBERT and ELLICE ISLANDS (British Colony)

L.T: GMT+12 h – **Pr.L:** English, Gilbertese, Ellice.

GILBERT AND ELLICE ISLANDS BROADCASTING SERVICE (Gov.)

ADDR: Broadc. Officer, Betio, Tarawa. **Cable:** "Broadcasts".

L.P: Dir: R. K. Uatioa.

STATIONS (System: STC and Cable Pty. Ltd): VTW 844kc 0.05kW –

VTW3 3220kc 93.17m 0.3kW – VTW2 4912.5kc 61.07m 2kW.
HOME SCE: Gilbertese and Ellice: D exc. Thurs, Sat: 04.30–07.00 (Vernacular), Thurs 07.30–10.30 (English) – **N: Gilbertese, Ellice:** Wed, Fri 05.30, Sun 04.00. **English:** Thurs 07.45. **Wrp:** with English N – **ANN:** E: "Good evening (afternoon) listeners, this is the Voice of Tarawa". Gilbertese: "Kam na bane ni mauri ara taan kakauongo n te bakantaai aei, aio bon Banaan Tarawa". Ellice: "Talofa katoa koutou i te fakaafiafi nei, mea nei ko te Sikungaleo o Tarawa".
INT-SIG: Four notes gong – **V.** by form letter.

GUAM (U.S. Territory)

L.T: GMT+10 h – **Pr.L:** English, Chamorro, Philippine dialects.
RADIO GUAM (Pr, Comm.)
FI: By adv – **ADDR:** P.O. Box 368 Agana, Guam. **Cable:** Kuam. **Te:** 7961 – **L.P:** Pres: H. Scott Kilgore. Vice Pres. & Gen. Mgr: W. B. Nielsen. Res. Mgr: E. A. Olson.
STATION: KUAM 610kc 1kW – **HOME SCE. in English:** 20.00 (Sun 21.00)–14.00(Sat 15.00) – **N:** Every h on the h.
ANN: "Kuam Agana, Guam" – **INT-SIG:** Voice & Jingle Form (Orchestra & Voices) – **V.** by letter and QSL-card – **PUB:** Prgr. schedule free. Write to: Resident Mgr. P.O. Box 368 Agana. Guam.
ARMED FORCES RADIO & TV SERVICE: see USA.

HAWAII (U. S. State)

L.T: GMT−10 h – **Pr.L:** English, Japanese, Filipino, Chinese, Okinawan.
VOICE OF AMERICA RADIO STATION IN HAWAII
ADDR: Voice of America, Washington 25, D.C, USA.
STATIONS: Honolulu 100kW: 09.00–16.30, 21.30–22.30.

kc	m	kc	m	kc	m	kc	m
5975	50.21	9650	31.09	15105	19.86	17705	16.94
9645	31.10	11845	25.33	15120	19.84	17800	16.85

English: 09.00–12.30, 13.00–16.30, 22.00–22.30. **Korean:** 11.30–12.00 on 11775kc, 21.30–22.00 on 15105kc.
PRIVATE STATIONS (Comm.): Abbrev: E=English, J=Japanese, F=Filipino, C=Chinese, O=Okinawa, S=Samoan, AI=All Island. PBN=Pacific Broadc. Netw.

	Call	kc	kW	Network		Call	kc	kW	Network
1)	KMVI	550	1	PBN	11)	KHVH	1040	5	Kaiser
2)	KGMB	590	5	PBN	12)	KHAI	1090	5	Indep.
3)	KORL	650	10	Indep.	13)	KIPA	1110	1	AI
4)	KULA	690	10	Indep.	14)	KLEI	1130	1	Indep.
5)	KGU	760	10	AI	15)	KOHO	1170	1	Indep.
5a)	KEKO	790	1	AI	16)	KZOO	1210	1	
6)	KIKI	830	0.25	Indep.	17)	KNDI	1270	5	Indep.
7)	KIMO	850	1	Kaiser	18)	KNUI	1310	1	AI
8)	KAIM	870	5	Indep.	19)	KPOI	1380	5	Indep.
9)	KAHU	940	10	Indep.	20)	KTOH	1490	1	PBN
2)	KHBC	970	1	PBN	21)	KUMU	1500	1	Indep.
10)	KTRG	990	5	Indep.					

1) **Maui Publishing Co,** P.O. Box 550, Wailuku, Maui. **L.P:** Gen. Mgr: R. E. Mawson. **D.Prgr:** 15.00–09.00 in E, J, F.
2) **Hawaiian Broadc, System,** P.O. Box 581, Honolulu 14, **L.P:** Gen. Mgr: J. L. Herold. **D.Prgr:** KGMB 15.00–10.00 in E, KHBC 15.30–10.00 in E, J, F. **V.** by letter. Rp.
3) **R. Hawaii Inc.** 2424 Kalakaua Ave, Honolulu 15. **L.P:** St. Mgr: D. Collins. **D.Prgr:** 24 h in E. **N:** 5 min before the h. **V.** by letter. Rp.
4) **KULA Broadc. Co,** P.O. Box 1479, Honolulu 15. **L.P:** Gen. Mgr: M. Hebdon. **D.Prgr:** 24 h in E, F.
5) **Communications Hawaii Inc,** P.O. Box 3110, Honolulu 2. **L.P:** Gen. Mgr: W. O. Paine. **D.Prgr:** 24 h in E; **N:** On the h and half h. **Ann:** "This is KGU in Honolulu. You're tuned to the world when you're tuned to KGU, Honolulu". **V.** by QSL-card. Rp. Prgr. schedule free.
5a) **KEKO Radio,** P.O. Box 816, Kealakekua. **Te:** 239525. **L.P:** St. Mgr: J. Lenk. Dir. Tec: S. Sleightholm. **D.Prgr:** 15.30–08.15.
Japanese: 15.30–16.30(Mon–Fri), 23.00–02.00(Sun). **Filipino** 16.00–17.30(Sun). Other times in English. **N:** Every h on the h and 17.15, 17.30, 04.30. **V.** by letter.
6) **KIKI Ltd,** 331 Kamani St, Honolulu 13. **L.P:** Gen. Mgr: A. J. Rossi. **D.Prgr:** 24 h in E, C, F, J, O.
7) **Kaiser Broadcasting,** P.O. Box 1497, Hilo. **L.P:** Gen. Mgr: J. E. Jaeger. **D.Prgr:** 15.00–10.00 in E, J, F.
8) **Christian Broadc. Assoc,** P.O. Box 375, Honolulu 16. **L.P:** Gen. Mgr: C. Keur. **D.Prgr:** 14.30–10.00 in E, F, C, J. **N:** 16.30, 16.55, 17.55, 20.00, 22.00, 24.00, 02.00, 03.45, 08.00, 10.00. **V.** by letter. Prgr. schedule free.
9) **Royal Hawaiian Radio Inc,** P.O. Box 1007, Waipahu. **Te:** 67567. **L.P:** St. Mgr: H. E. Chu. Dir. Tec: R. H. Pearson. Prgr. Mgr: J. Livingston. **D.Prgr:** 15.00–09.00. English: 16.00–09.00. Filipino: 15.00–16.00. Samoan: Mon 08.00–08.30. **N:** 5 min before the h. **V.** by letter or QSL-Card.
10) **Hawaiian Paradise Park Corpo,** 2227-A Kalakaua Ave, Honolulu 15. **L.P:** Gen. Mgr: P. W. Carle. **D.Prgr:** 24 h in E, J, F.
11) **Kaiser Broadcasting,** 1290 Ala Moana Blvd, Honolulu 14. **L.P:** Gen. Mgr: D. Kawakami. **D.Prgr:** 15.00–08.30 in E. **V.** by letter. Prgr. schedule free.
12) **Royal Broadc. Co. Inc,** 2259 Kalakaua Ave, Honolulu 15. **L.P:** Gen. Mgr: R. L. Bowen. **D.Prgr:** 24 h in E.
13) **Big Island Broadc. Co,** P.O. Box 1602. Hilo. **L.P:** Gen. Mgr: E. Marion Sexton. Dir. Tec: R. W. Jaderstrom. **D.Prgr:** 15.00–10.30 (Sun 08.15). Filipino: 03.30–05.30. Japanese: 05.30–07.45. Other times English. **N:** every h. **V.** by letter.
14) **Oahu Broadc. Co,** Kailua, Oahu. **L.P:** Gen. Mgr: J. Irvin. **D.Prgr:** 15.59–10.00 in E.
15) **Cosmopolitan Broadc. Co,** 1140-A, 12th Ave, Honolulu 16. **L.P:** Dir. Gen: H. Sato. **D.Prgr:** 14.00(Sun 15.00)–09.00 in E, F, J, C. **N:** every h. **V.** by QSL-card. Rp.
16) **Polynesian Broadc. Inc,** 250 Ward Ave, Suite 209, Honolulu. **L.P:** Gen. Mgr: H. Y. Tateishi. **D.Prgr's** in J, E, O.
17) **R. St. KNDI,** P.O. Box 1516, Honolulu. **L.P:** Gen. Mgr: J. T. Ownby. **D.Prgr:** 16.00–09.00 in E. Also in French, German, Japanese, Chinese, Filipino at various times. **V.** by letter.
18) **KNUI Broadc. Co,** Box 1310, Wailuku, Maui. **D.Prgr's** in E, J, F.
19) **KPOI Broadc, Co.** 1701 Ala Wai Blvd. Honolulu 15. **L.P:** Gen. Mgr: F. Hollinger. **D.Prgr:** 24 h in E.
20) **Garden Island Publishing Co.** Box 1748 Lihue, Kauai. **L.P:** Gen. Mgr: M. Fern. Dir. Tec: J. I. Iha. **D.Prgr:** 15.00(Sat 16.00)–08.00. Sun 17.30–06.00 in E, F. **N:** 16.50, 19.05, 22.10, 03.40. **V.** by letter. Rp.
21) **KUMU Radio,** 1148 – 12th Ave, Honolulu 16. **L.P:** Gen. Mgr: J. Weiser. Jr. **D.Prgr:** 24 h in E. **N:** 5 min's before the h 15.55–07.55. **Ann:** "This is KUMU in Honolulu at the top of the dial". **V.** by letter. Rp. preferred.

NEW CALEDONIA (French)

L.T: GMT+11 h – **Pr.L:** French.
RADIO NOUMEA (Gov – ORTF)
AD: 19.00–20.00, 00.00–01.00, 01.15–01.20, 07.45–08.00.
ADDR: B.P. 327, Noumea. **Cable:** Radio Noumea. **Te:** 2856.
L.P: Dr. Le Leizour. Dir. Tec: G. Guesdon.
STATIONS (System TRT): 1420 kc 211 m 8 kW
3355 kc 89.45 m 4 kW – 7170 kc 41.84 m 4 kW.
HOME SCE. in French, Bichelamar (Pidgin), Wallisian: On 1420/3355kc: W 19.00–21.00, 23.30–02.00, 06.00–11.00; Sun 21.00–02.00, 06.00–11.00.
On 7170kc: 23.30–02.00 (Sun 21.00–02.00). **N. in French:** 19.30, 19.55, 20.55, 00.00, 01.00, 07.00, 08.00, 10.55 – **Wrp:** 19.30, 19.55, 00.00, 01.00, 08.00, 09.00, 10.55.
For New Hebrides: Thurs 07.00–07.30 – **ANN:** "Ici Noumeá, Office de Radiodiff. Télévision Francaise" – **INT-SIG:** Call of the cagou bird – **V.** by QSL-card. Rp. Recordings accepted.

NEW HEBRIDES

L.T: GMT+11 h – **Pr.L:** English, French, Pidgin-English.
RADIO PORT VILA (Gov.)
ADDR: Anglo-French Condominium Adm, Port Vila, New Hebrides, So. Pacific – **L.P:** Eng. in Chief: R. A. Robinson.
STATION: 3277 kc 91.55 m 1 kW –
3905 kc 76.83 m 0.5 kW – 5932 kc 51.44 m 0.5 kW.
The st. does not follow any regular schedule. Tr's are only made to cover special activities. 3905kc or 5932kc are normally used if the tr. is made between 23.00–05.00, 3277kc is used after 05.00.
Refer all communications regarding English prgr's to Inf. Officer British Residency, Vila, and regarding French prgr's to "Bureau d'Information", Residence de France, Port Vila.

NEW ZEALAND

L.T: GMT+12 h – **Pr.L:** English, Maori.
NEW ZEALAND BROADCASTING CORPORATION
(Statutory Public Body)
FI: By license payments and adv – **AD:** St's other than YA, YC, YZ and YW. St's broadc. adv on W – **ADDR:** P.O. Box 98, Wellington. **Cable:** Broadserv. **Te:** 48.200 – **L.P:** Dir. Gen: G. H. Stringer. Dir. of Engineering: W. L. Harrison. Dir. Sound Broadc: L. R. Sceats.
HOME SCE. in English: **exc. Sun 11.20–17.00.

	Call	kc	m	kW	h of tr.
Wellington	2YA	570	526	100	24 h**
Napier	2YZ	630	476	20	18.00–11.20
Alexandra	4YX	640	468	2	18.00–11.20
Wellington	2YC	660	455	60	05.00–11.00
Christchurch	3YA	690	434	20	18.00–11.20
Invercargill	4YZ	720	416	20	18.00–11.20
Greymouth	3ZA	750	400	2	18.00–23.00
Auckland	1YA	760	395	20	18.00–11.20
Dunedin	4YA	780	384	20	18.00–11.20
Wellington	2YB	800	375	20	see below
Invercargill	4ZA	820	366	10	18.00–12.00

	Call	kc	m	kW	h of tr.
Masterton	2XB	840	357	2	18.00–10.30
Rotorua	1YZ	860	349	10	18.00–11.20
Auckland	1YC	880	341	10	05.00–11.00
Dunedin	4YC	900	333	10	05.00–11.00
Greymouth	3YZ	920	326	10	18.00–11.20
Palmerston No.	2ZA	940	319	2	18.00–12.00
Christchurch	3YC	960	312	10	05.00–11.00
Whangarei	1XN	970	309	2	18.00–11.00
Wellington	2ZB	980	306	20	18.00–12.00
Tauranga	1ZD	1000	300	10	18.00–10.30
Dunedin	4ZB	1040	288	10	18.00–12.00
Gisborne	2ZG	1060	283	2	18.00–11.00
Auckland	1ZB	1070	280	10	18.00–12.00
Christchurch	3ZB	1100	273	10	18.00–12.00
Wellington	2YD	1130	265	2	21.00–10.00
Hamilton	1YW	1140	263	2	18.00–11.20
Timaru	3XC	1160	258	2	18.00–11.00
Gisborne	2YW	1180	254	2	18.00–11.20
Wanganui	2XA	1200	250	2	18.00–11.00
Kaikohe	1XE	1220	245	2	18.00–11.00
Auckland	1YD	1250	240	2	21.00–10.00
Napier	2ZC	1280	234	2	18.00–12.00
Hamilton	1XH	1310	229	2	17.00–12.00
Nelson	2XN	1340	224	2	18.00–11.00
Rotorua	1ZC	1350	222	2	18.00–10.30
New Plymouth	2XP	1370	219	2	18.00–11.00
Christchurch	3YD	1400	214	2	21.00–10.00
Dunedin	4XD	1430	210	0.25	
Kaitaia	1XA	1440	208	2	18.00–11.00
Westport	3YW	1460	205	2	18.00–11.20
Taupo	1ZA	1500	200	2	18.00–04.00
Blenheim	2ZE	1540	195	1	18.00–21.00

St. 2YB on the air only when 2YA is broadc. direct from the House of Representatives.

NEWS: Stations 1YA/1YZ/2YA/2YZ/3YA/3YZ/4YA/4YZ: W 18.00*, 18.30, 19.00*, 19.30, 20.00*, 20.30, 21.00, 22.31 (not Sat), 00.33, 01.15, 03.31 (not Sat), 05.00 (not Sat), 06.00*, 07.00, 09.03, 11.00*, 11.14. Sun 18.00*, 19.00*, 19.30, 20.00*, 20.30, 21.00, 00.33, 01.15, 06.00*, 07.00, 09.03, 11.00*, 11.14. *=BBC.
Stations 1ZB/2ZB/3ZB/4ZB/4ZA: W 18.15, 18.45 (not Sat), 19.15, 19.45, 20.15, 20.45, 21.15 (Sat only), 22.31 (not Sat), 00.15, 01.30, 03.31 (not Sat), 06.15, 09.35, 11.30. Sun 19.15, 20.15, 21.15, 00.15, 01.30, 06.15, 09.35 – Station 1ZD: as for 1ZB exc. W 11.30 and Sun 19.15.
News in Maori (1YA etc): Sun 05.50 – **Dominion Weather Forecasts** (1YA etc): D 19.14, 00.30, 04.00, 09.00 – **Rlg** (1YA etc): W 22.00, Sun 23.00, 07.00 – L.L (French to Schools): Mon 02.45 (Feb–Aug).

FOREIGN SCE: R. New Zealand.
ADDR: P.O. Box 98, Wellington. **Cable:** Broadserv. **Te:** 48-200 – **L.P:** Distr. Mgr: J. L. Harstonge. Dir. Tec: A. S. Chisholm. Prgr. Officer: H. W. Taylor-Smith.

STATIONS: 7.5 kW.

Call	kc	m	Call	kc	m	Call	kc	m
ZL7	6080	49.34	ZL2	9540	31.45	ZL21	15110	19.85
ZL18	9520	31.51	ZL3	11780	25.47	ZL4	15280	19.63

Two freq's are used simultaneously, and as the prgr.sched. is intended primarily for Australia and the Pacific Islands, the present aerials are beamed in those two directions. HS=Home Sce. prgr's.

To Pacific Islands: 17.00–19.45 HS on 6080, 9540kc; 20.00–05.45 HS on 15280kc; 06.00–08.45 Special prgr. on 6080, 9540kc (on Sun tr. on 6080kc ends at 08.00).

To Australia: 20.00–22.30 HS on 9540kc; 22.45–05.45 (Sun 20.00–02,00, 03.00–05.45) HS on 15110kc; 09.00–11.45 Special prgr. on 6080, 9540kc.

"**Calling Antarctica**" (a prgr. of N, sporting review, "Family Corner" directed to N.Z. scientific personnel in the Ross Dependency): Sun 08.15–08.45 on 6080kc – "**Calling Samoa**" (in Samoan): Tues 07.00–07.30 – "**Calling the Cook Islands and Niue**" (in Rarotongan and Niuean): Wed 07.45–08.05, Sat 08.00–08.20 (repeat). Freq's as for "Pacific Islands".

New Zealand News: 00.45, 07.00, 10.00 – **Rlg:** W (in N.Z.) 22.00, Sun (in N.Z.) 23.30 – **DX-Prgr.** (Arthur Cushen's DX World) 1st Wed in month: 06.40, 10.30, also Sun following the 1st Wed at 01.00 – "**Lookout**": Sat 09.13, Sun 06.30 – "**Point of View**": Sun 09.13, Mon 07.00 – "**Mailbox**": Fri 07.00, 09.45 – **Maori Music:** Thurs 06.45, Fri 08.15, 09.00, Sun 10.15 – "**This is N.Z**": Sun 07.45, 10.30, Tues 08.15, 09.30 – **Prgr. Previews:** 23.40, 06.09, 08.40, 08.55, 11.40.

ANN: "This is R. New Zealand" – **INT-SIG:** Call of the N.Z. Bell bird (at 5 second intervals) – **V.** by QSL-card (sea mail). Re. to Distr. Mgr, P.O. Box 2396, Wellington – **PUB:** "The N.Z. Listener" (Home Sce) 39sh (NZ) yearly. Prgr.sched. (free to overseas listeners).
Wilhelm Franz KG, Germany, delivered EMT studio equip.

NORFOLK ISLANDS (Austral. Terr.)

L.T: GMT+11½ h – **Pr.L:** English.
NORFOLK ISLANDS BROADCASTING SERVICE (Gov.)
Owned by the Norfolk Islands Adm. and under the technical direction of the Dept. of Civil Aviation – **ADDR:** Norfolk Islands Administration, Kingston – **L.P:** St. Officer: Mrs. D. M. Sanders. Secr: E. G. Williams – **STATION:** VL2NI 1570kc 0.05kW.
HOME SCE. in English: Mon, Fri 20.15–21.30, Tues 21.15–21.30, Wed 21.15–00.30, Thurs 20.15–21.30 & 22.30–23.30, Sat 00.30–00.45, Sun 23.30–23.45 – **N:** 20.45–21.00 (Mon–Fri).
ANN: "Norfolk Island Broadc. Sce, St. VL2NI" – **V.** by letter. Rp.

PAPUA and NEW GUINEA

(Australian Territory & Australian Trust Territory of New Guinea).
L.T: GMT+10 h – **Pr.L:** English, Melanesian Pidgin, Vernaculars
DEPARTMENT OF INFORMATION & EXTENSION SCE'S,
Konedobu (Head Office for all st's). **Cable:** "Adcast" – **L.P:** Dir. L. R. Newby. Dir. Tec: W. F. Carter.
RADIO RABAUL (Gov.)
ADDR: Adm. Broadc. St, P.O. Box 71, Rabaul. **Cable:** Adcast. **Te:** 2700 – **L.P:** St. Mgr: H. H. Leigh S. Dir. Tec: W. Murphy.
STATION: VL9BR 3385kc 88.63m 10kW.
HOME SCE: 06.00–13.00. **N: English** 08.00, 10.00. **Tolai:** 08.10, 10.10, 10.35. **Pidgin:** 09.05, 10.05, 11.35, 12.05 – **Wrp & Shipping Inf (in Pidgin):** 08.50 – **Ann:** E: "This is R. Rabaul, Station VL9BR". Tolai: "Ava valavala Ongore R. Rabaul VL9BR". Pidgin: "Yupela wok lang harim R. Rabaul VL9BR, Stesin Bilong Yumi" – **V.** by letter. Recordings accepted.
RADIO WEWAK (Gov.)
ADDR: P.O. Box 65, Wewak. **Te:** 98. **Cable:** "Adcast". **L.P:** St. Mgr: R. Wilson. Supervising Technician: J. Whittaker.
STATION (System: STC): VL9CD 3335kc 89.96m 10kW.
HOME SCE. in English & Melanesian Pidgin: 06.15–12.30.
N. in English: 08.00 (Mon–Fri), 09.00(Sat/Sun only), 10.00(Mon–Fri) – **ANN:** "Adm. broadc. St. R. Wewak" – **V.** by letter. Recordings accepted – **F.PL:** Extension of broadc. hrs. to 03.30–12.30(Sat/Sun), 20.30–23.30(Mon–Sat).
Projected St's: A total of 20st's are planned for this area. Next planned st's: Mount Hagen, Madang.
RADIO KEREMA (Gov.)
ADDR: Adm. Broadc. St, Kerema. **Cable:** "Adcast".
STATION: VL8BK 3245kc 92.45m 0.25kW.
HOME SCE in English, Vernaculars: 07.00–12.00 – **V.** by QSL-card or letter. Re. welcomed.
RADIO DARU (Gov.)
ADDR: Adm. Broadc. St, Daru. **Cable:** Adcast. **Te:** 53 – **L.P:** Dir. of Inf. & Extension Sce's: L. R. Newby. St. Mgr: W. Burford.
STATION (System: TCA): VL8BD 3304kc 90.80m 10kW.
HOME SCE. in Police Motu & English: 07.00–10.30.
N. Mon–Fri 08.00, 08.30, 09.30, 10.00, 10.25. Sat/Sun 09.00.
ANN: E: "R. Daru, st. VL8BD" and "Your Western District Radio st". Police Motu: "Enai be umui emui Western District st" – **V.** by QSL-card – **PUB:** pamphlets (available later on).
RADIO GOROKA (Gov.)
ADDR: Adm. Broadc. St, P.O. Box 146, Goroka. **Cable:** "Adcast". **Te:** 218 – **L.P:** Dir. of Inf. & Extension Sce's: L. R. Newby. St. Mgr: P. B. Bird.
STATION (System: TCA): VL9CG 2410kc 124.5m 0.25kW.
HOME SCE. in English, English/Pidgin, Kuman/Kafe: 07.00–12.00 **N:** 08.00 (English), 09.00 (English/Pidgin), 09.30 (Kuman/Kafe), 10.00 (English/Pidgin) – **ANN:** E: "R. Goroka, st. VL9CG". Pidgin: "Stesin bilong ol pipal bilong Eastern Highlands District" – **V.** by QSL-card. Re. welcomed – **PUB:** pamphlets available on a limited basis.

SAMOA (American)

L.T: GMT−11 h – **Pr.L:** Samoan, English.
RADIO STATION WVUV (Gov.)
ADDR: Office of Samoan Information. P.O. Box 453, Pago Pago. **Te:** 648 – **L.P:** Gen. Mgr: B. MacKenzie. Dir. Tec: H. Cronin.
STATION: WVUV 1120kc 10kW.
HOME SCE: 18.00–24.00, 05.00–08.00. **N: English:** Mon–Fri 18.30, Tues–Sat 05.45, Sat 22.00, 23.00, 24.00. **Samoan:** Mon–Fri 19.45–06.30, 07.30 – **Samoan Music:** 06.30 – **ANN:** E: "This is st. WVUV, Pago Pago, American Samoa" – **V.** by letter.

SAMOA (Western)

L.T: GMT−11 h – **Pr.L:** Samoan, English.
SAMOA BROADCASTING SERVICE 2AP (Gov, Comm.)
FI: By Gov, appropriation & adv. – **AD:** W 17.00–19.00, 05.00–09.30 mainly spots in English, Samoan.
ADDR: P.O. Box 200, Apia. **Te:** 2. **Cable:** Voxpac – **L.P:** Dir:

J. W. Moore. Prgr. Supervisor: L. Levi. Chief Eng: J. K. Brown.
STATIONS (System: AWA): 2AP Apia 1420kc 211.3m 10kW.
HOME SCE: English/Samoan: W 17.00–20.00, 23.00–01.30, 05.00–09.30. Sun: 20.00–23.00, 05.00–09.30. **English:** 05.00–06.30. **Samoan:** 06.30–09.30 – **N: English:** W 18.00, 23.30, 00.00, 06.00 (from BBC, ABC or VOA), 06.15. **Samoan:** 07.30, 08.30. **Rlg** (Samoan): Sun 06.30–07.30. – **ANN:** E: "2AP, Apia, The Samoa Broadc. Service". Samoan: "Ole Si' ufofoga Lenei o Samoa i Sisifo, Ole 2AP i Apia". (The Voice of Western Samoa, 2AP Apia) – **V.** by QSL-card. Recordings accepted. Rp. – **INT-SIG:** Gong – **F.PL:** English Prgr's on 1150kc (0.3kW); Nat Prgr (exp.) 05.30–08.30(W).

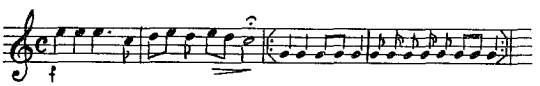
SOLOMON ISLANDS (British)

L.T: GMT+11 h – **Pr.L:** English, Pidgin-English, Vernaculars.
SOLOMON ISLANDS BROADCASTING SERVICE (Gov.)
FI: By Gov, license payments, adv – **AD:** Mon–Fri 07.30–11.00, Sat 08.00–11.00 – **ADDR:** SIBS, Honiara. **Cable:** Broadcasts. **Te:** 425 – **L.P:** Broadc. Officer: R. W. M. McLeish. Asst. Broadc. Officer: W. Bennett. Dir. Tec: P. Butler. Senior Producer: D. E. Rolfsen.
STATIONS (Systems: Marconi, AWA): VQO 1030kc 291m 0.66kW–VQO3 3205kc 93.50m 0.5kW – VQO4 3995kc 75.09m 5kW.
HOME SCE: Mon–Fri 07.30–11.30, Sat 08.00–11.30, Sun 08.00–11.20.
N. in English: 07.45 (Mon–Fri), 09.15(BBC), 09.30(W), 11.00(ABC), 11.10(Sat) – **Pidgin English (N):** 08.15(Mon–Fri), 08.45(Sat) – **Roviana:** Tues 08.30 – **ANN:** "This is the Solomon Islands Broadc. Sce" – **INT-SIG:** Gong – **V.** by QSL-card. Re. must contain details to establish authenticity. Recordings accepted – **PUB:** Prgr-schedule free.

TAHITI (French)

L.T: GMT−10 h – **Pr.L:** French, Tahitian, Maori.
RADIO TAHITI (Gov.)
AD: D 21.45–22.00, 03.45–04.00 – **ADDR:** Rue Dumont d'Urville 410, Papeete. **Cable:** R. Tahiti. **Te:** 243 – **L.P:** Dir: M. Espinasse. Dir. Tec: W. Copie, Y. Roche.
STATIONS (4kW): 1400kc – 6135kc 48.90m – 11825kc 25.37m.
HOME SCE: W 16.15–18.15, 21.00–23.30, 03.00–08.00. Sun 20.00–23.30, 03.00–08.00 (on all freq's).
French: 16.15–17.15, 21.45–23.00(W), 05.00–07.30(Sun) 08.00). **N:** 22.15, 05.30 – **Tahitian:** 21.30–21.45(W), 03.50–05.00. **N:** 21.30(W), 04.00 – **Bilingual:** Sun 20.00–23.00.
Although times are GMT, calendar days apply to Tahiti only.
ANN: F: "Ici Tahiti, Radiodiff.-Télévision Française". Maori: "O Radio Tahiti Teie Te Reo O Farani I Patitifa" – **INT-SIG:** Tahitian flute (vivo) and drums.

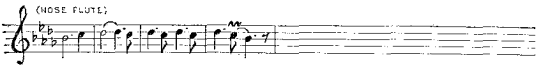
Flute: Drums:



V. by QSL-card. Recordings accepted – **PUB:** Prgr. sched. free.

TONGA (Kingdom of)

L.T: GMT+13 h – **Pr.L:** Samoan, Fijian, Tongan, English.
TONGA BROADCASTING COMMISSION (Gov.)
FI: By Gov. assisted by revenue from adv – **ADDR:** P.O. Box 36, Nuku'alofa. **Cable:** Broadcom. **Te:** 105 – **L.P:** Mgr: R. E. Lavin. St. Eng: M. Holmes-Libbis.
STATION (System: AWA): ZCO 1020 kc 10 kW.
HOME SCE. in Tongan, English: 18.00–20.15, 05.30–10.00 (Tongan, English, Samoan). **N: Tongan:** 19.00, 06.15. **English:** 18.00(BBC), 07.00(ABC), 07.15(NZBC) – **Wrp** (for Tonga, Niue, Samoa, Fiji): At end of N. and 19.15 – **Samoan:** Wed, Thurs 09.00 – **Tongan Music:** 18.30, 19.30, 06.00, 06.30 – **Overseas Musical Prgr:** 07.00–10.00 – **Pacific Requests:** Mon 07.30–10.00 (Samoan, Fijian, Tongan, English).
ANN: E: "This is the Call of the Friendly Islands "ZCO Nuku'alofa of the Tonga Broadc. Commission". Tongan: "Ko e Ui 'eni'a e 'Otu Felenite, mei he ZCO Nuku'alofa 'a e Komisoni Fakamafola Lea Tonga". Samoan: "O le siu fofoga leni o le otu motu o Tonga, ZCO Nuku'alofa o le Komesinio Faasalalaunga o Tonga" – **INT-SIG:** Tongan Nose Flute – **V.** by QSL-card. Recordings accepted.



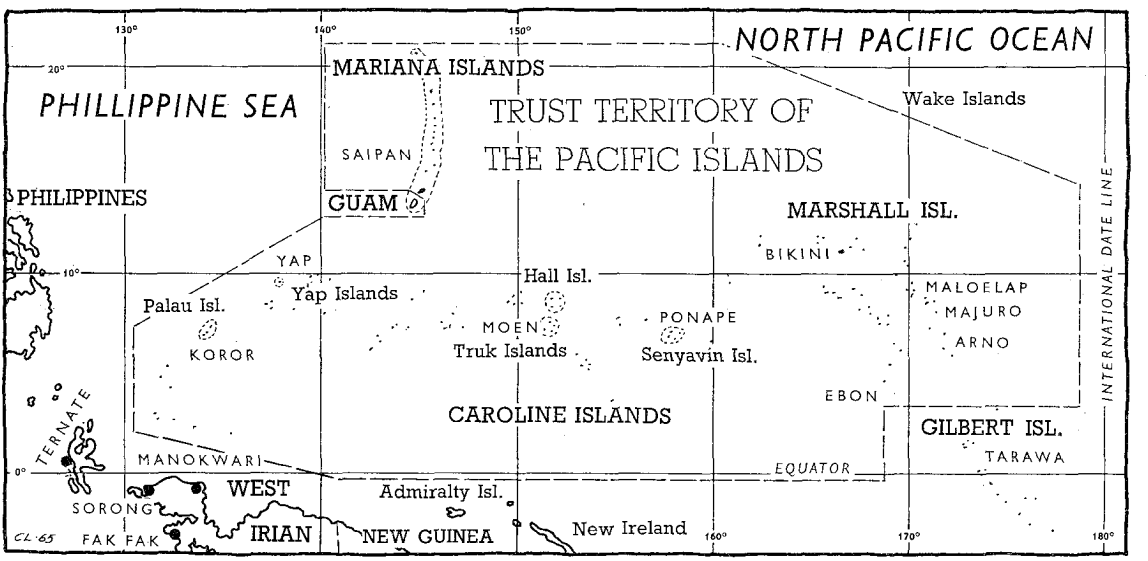
TRUST TERRITORY OF THE PACIFIC ISL.

(Mariana Islands (exc. Guam), Caroline Islands, Marshall Islands).
L.T: GMT+10 h – **Pr.L:** English, Ponapean, Chamorro, Palauan, Trukese, Marshallese, Yapese.
ADDR: Head Office: High Commissioner, Trust Territory of the Pacific Islands, Saipan, Mariana Islands 96950 – **L.P:** Dir. Gen: Asst. Commissioner for Public Affairs: J. E. deYoung. Public Inf. Officer: S. Thompson. **Studios:** Dist. Adm. Ponape, Eastern Caroline Isl. 96941 (WSZD). St. Mgr: S. Pelap; Dist. Adm. Truk, Eastern Caroline Isl. 96942 (WSZC). St. Mgr: K. Peter; Dist. Adm. Saipan, Mariana Isl. 96950 (KJQR). St. Mgr: F. Rabauliman; Dist. Adm. Palau District, Koror, Western Caroline Isl. 96940 (WSZB). St. Mgr: H. Rodas; Dist. Adm. Marshall Isl. District, Majuro, Marshall Isl. 96960 (WSZO), St. Mgr: L. Edwards; Dist. Adm. Yap District, Eastern Caroline Isl. 96943 (WSZA). St. Mgr: A. Yug.

STATIONS (System: Gates):

Location	Call	kc	kW	H of tr. (approx.)
Ponape	WSZD	1450	1	20.30–12.00
Moen	WSZC	1500	1	21.00–03.00, 06.00–12.00
Saipan	KJQR	1350	1	20.30–12.00
Koror	WSZB	1500	0.25	20.30–12.00
Majuro	WSZO	1440	1	20.30–12.00
Yap	WSZA	1480	1	20.30–12.00

Prgr's: Educational & entertainment (final fixed programming for broadc. still in development stages).



ANN: Ponape: "This is R. St. WSZD, Ponape – Met. St.WSZD Nan Ponape". Truk: "This is R. St. WSZC in Moen Truk – Jei ach we appio itan WSZC non nomum Truk". Saipan: "This is R. St. KJQR Saipan". Koror: "This is R. St. WSZB, Koror, Palau". Majuro: "This is R. St. WSZO Majuro". Yap: "This is R. St. Yap" – V. Re. not requested at present.

NORTH AMERICA

BERMUDA (British)

L.T: GMT–4 h – Pr.L: English.

BERMUDA BROADCASTING CO. LTD. (Comm.)
ADDR: Box 452, Hamilton. Te: 2-1122. Cable: ZBM Bermuda. L.P: Man. Dir: W. Staskow, Mgr: K. Belton, Dir. Tec: J. H. Spershott. STATIONS (1kW): ZBM1 1235kc – ZBM2 1340kc – FM: 89.1Mc. HOME SCE. in English: On 1235kc: 24 h – On 1340kc: 24 h. N, Wrp: 10.55, 11.45, 13.00, 15.00, 16.45, 18.00, 19.00, 20.00, 21.00, 22.00, 23.00, 01.00, 02.05, 03.30, 04.00, 04.30, 05.00.
T.S: every ¼ h – Portuguese: 09.45–10.15 on 1235kc.
ANN: "This is ZBM Radio Bermuda" – V. by QSL-card. Rp. Recordings accepted.

CAPITAL BROADCASTING CO. LTD.
ADDR: Box 652, Hamilton. Te: 2-4444. Cable: Capbro – L.P: Man. Dir: M. E. Sheppard. Dir. Tec: B. J. Roche.
STATION (System: Bauer): 960kc 1kW
HOME SCE. in English: 24 h – N: 10.55*, 11.30, 12.25, 13.30*, 14.30, 16.15*, 16.30, 17.25*, 20.55*, 22.15*, 22.45, 02.55, 06.00, 08.00. *=Headlines – ANN: "This is your favourite R. Station ZFB1 960 on your dial" – V. by letter – PUB: Prgr. schedule on request.

CANADA

L.T: See Time Table – Pr.L: English, French.
Abbreviations: Nf=Newfoundland, NS=Nova Scotia, PEI=Prince Edward Isl. NB=N. Brunswick, P=Pacific, Qu=Quebec, O=Ontario, M=Manitoba, Sa=Saskatchewan, Al=Alberta, BC=British Columbia, W=Winnipeg, Pr=Province, Prince R=Prince Rupert, NWT=No.W.Territories.

CANADIAN BROADCASTING CORPORATION INTERNATIONAL SERVICE (Publicly-owned)
ADDR: Canadian Broadcasting Corporation, International Service, P.O. Box 6000, Montreal. Cable: Intrad.
L.P: Dir: C. R. Delafield. Supervisor of Sections: A. L. Pidgeon. Supervisor of Eng. Sce: S. B. Duke. Supervisor of Inf. Sce: K. D. Renner. Coordinator of Transcription Services: G. Poupart. Head Eng. Sce: P. A. Tallman; Head French Sce: L. Coté. Head Latin American Sce: P. Marcos Bilbao. Supervisor of TV Prod: G. Delanoe.
STATIONS: All international sw. broadcasts from Canada are directed by CBC International Service, which is owned by the people of Canada. All prgr's are sent by landline from Montreal to Sackville, New Brunswick, on Canada's Atlantic coast, whence they are transmitted by three 50kW tr's.

kc	m	kc	m	kc	m	kc	m
5955	50.38	9625	31.17	11725	25.59	15320	19.58
5970	50.25	9630	31.15	15190	19.75	17820	16.84
5990	50.08	11720	25.60				

Schedule: Nov 65–April 66.

EUROPEAN SERVICE: 05.55–06.30, 10.55–18.30, 20.00–21.52. 05.55–06.30 on 5955kc, 10.55–13.44 on 11720/15320kc Nov–Feb, (15320/17820kc March/April), 13.45–15.15 on 11720/15320/17820kc, 15.16–15.29 on 15320/17820kc, 15.30–16.30 on 11720/15320/17820kc, 16.31–16.59 on 15320/17820kc, 17.00–18.30 on 11720/15320/17820kc, 20.00–21.52 on 9630/11720/15320kc.

Time	Program	News
05.55–06.30	Forces Relay	English 06.00, French 06.20
10.55–12.14	Forces Relay	English 11.00, 12.00; French 11.40
12.15–13.13	English	12.16
13.16–13.44	French	13.16
13.45–14.15	Ukrainian	
14.15–14.45	Russian	
14.45–15.15	Czech/Slovak	
15.16–15.29	News	English 15.16, French 15.22
15.30–16.00	Polish	
16.00–16.15	Russian	
16.15–16.30	Czech/Slovak	
16.31–16.59	Forces Relay	English 16.32, French 16.50
17.00–17.15	Polish	
17.15–17.45	Czech/Slovak	
17.45–18.15	German	
18.15–18.30	Hungarian	
20.00–20.45	French	20.01
20.45–21.15	Forces Relay	French 20.45, English 21.00
21.15–21.50	English	21.37

NO. AMERICAN & ANTILLES SERVICE
12.15–13.13 on 5970kc, 13.16–13.44 on 11720kc.
12.15–13.13 English. N: 12.16; French N: 13.16.

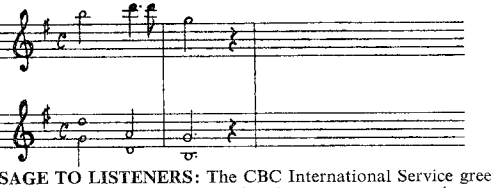
AFRICAN SERVICE
18.32–19.58 on 11720/15320/17820kc
English 18.32–19.15. N: 18.33. French 19.15–19.58. N: 19.15.

NORTHERN CANADA SERVICE (East, Central, West)

10.55–12.14 on 5970kc	(Forces Relay)
15.16–15.29 on 11720kc	(N. in English and French)
16.31–16.59 on 11720kc	(N. in English and French)
21.58–22.46 on 5970/9625/11720kc	(English and French)
00.58–02.30 on 5970/9625/11720kc	(English)
02.30–07.05 on 5970/9625kc	(English)

N in English: 22.00, 01.00, 02.00(W), 03.30(Sun), 04.00, 05.00, 06.00, 07.00. N in French: 03.00(W) 06.15(Sun). 06.20(W).

CARIBBEAN & LATIN AMERICAN SERVICE
22.58–00.46 on 5990/9625/11725/15190kc (Nov 64–Feb 65), on 9625/11725/15190kc (March/April).
English 23.00–23.30. N: 23.01. Portuguese 23.30–24.00. N: 23.33. Spanish 00.00–00.46. N: 00.04.
AUSTRALASIAN SERVICE: 07.25–08.35 on 5970/9625kc.
English 07.30–08.30. N: 07.31.
DX Prgr (times indicated are approx): In English: Sat 12.35, 18.35, 21.30, 23.20, Sun 07.50. In French: Sat 19.50, 20.35. In German: Sun 18.00, 18.45. In Polish: Sat 17.00, Sun 15.30. In Czech: Sun (fortnightly) 14.45, 17.15 – ANN: E: "This is the International Sce. of the Canadian Broadcasting Corpo". F: "Ici Radio Canada". G: "This is Canada".
INT-SIG: First four notes of National Song "O Canada" (piano):



MESSAGE TO LISTENERS: The CBC International Service greets shortwave listeners everywhere, and welcomes reports, queries, and comments on reception and programs. Please write to: Box 6000, Montreal – V. by letter or QSL-card – PUB: CBC-Radio-Canada prgr.sched. published four times, a year and sent free upon request.
F.PL: Expansion of the Sackville, NB, short wave plant.

CBC NATIONAL SERVICE (Publicly-owned.)
ADDR: Head Office: P.O. Box 478, Terminal "A", Ottawa – International Sce: P.O. Box 6000, Montreal. French Networks Div: P.O. Box 6000, Montreal. English Networks Div: P.O. Box 500, Toronto. Newfoundland Reg: P.O. Box 5490, St. John's. Maritime Reg: P.O. Box 3000, Halifax. Prairie Reg: P.O. Box 160, Winnipeg. British Columbia Reg: 701 Hornby Str. Vancouver. Ottawa Area: P.O. Box 3220, Station "C", Ottawa. Northern and Armed Forces Sces: P.O. Box 478, Terminal "A", Ottawa. Engineering Headquarters: 7925 Cote Street, Luc Road, Montreal – Offices outside Canada: CBC Representatives: New York: Suite 2401, 1270 Avenue of the Americas, New York 20, N.Y. London: The Langham, Portland Place, London W.1, England. Paris: 17 Ave. Matignon, Paris 8, France.
L.P: Pres: J. A. Ouimet. Vice-Pres: Capt. W. E. S. Briggs. Vice-Pres. (Asst. to the Pres): R. C. Fraser. Vice-Pres. Prgr: E. S. Hallman. Vice-Pres. Engineering: J. E. Hayes. Vice-Pres. Finance: V. F. Davies. Vice-Pres. Planning: J. P. Gilmore. Vice-Pres & Gen. Mgr. Network Broadc: (English): H. G. Walker. Vice-Pres. & Gen. Mgr. Network Broadc. (French): M. Ouimet. Vice-Pres. & Gen. Mgr. Reg. Broadc: Charles Jennings.
CBC Representatives: Paris: J. Saint Georges. London: S. Moore. New York, United Nations: F. Mutrie.

ENGLISH NETWORK

Call	kc	kW	Call	kc	kW	Call	kc	kW
1) CBT	540	10	10) CHAK	860	1	18) CBI	1140	10
2) CBK	540	50	11) CBO	910	5	19) CFFB	1200	0.04
3) CFWH	570	1	12) CBM	940	50	20) CHFC	1230	0.25
4) CBN	°640	10	13) CBY	990	10	21) CFGB	1340	1
5) CBU	°690	10	14) CBW	990	50	22) CFYK	1340	0.25
6) CBL	740	50	15) CBR	1010	50	23) CBG	1450	0.25
7) CBX	740	50	16) CBA	1070	50	24) CBZ	1480	10
8) CBH	860	10	17) CBD	1110	10	25) CBE	1550	10
9) CFPR	860	10						

1) P.O. Box 218, Grand Falls, Nfld – 2) P.O. Box 347, Regina, Sask – 3) P.O. Box 730, Whitehorse Y.T. – 4) P.O. Box 5490, St. John's, Nfld. – 5) 701 Hornby Str. Vancouver, B.C. – 6) P.O. Box 500, Toronto O – 7) P.O. Box 555, Edmonton, Alta – 8) P.O. Box 3000, Halifax – 9) 343 W. 2nd Ave, Prince Rupert, B.C. – 10) P.O. Box 1220, Inuvik, N.W.T. – 11) P.O. Box 3220, Station "C". Ottawa, O – 12) P.O. Box 6000, Montreal, Que – 13) P.O. Box 610, Corner Brook, Nfld – 14) P.O. Box 160, Winnipeg, Man – 15) 1724 Westmount Blvd, Calgary Alta – 16) P.O. Box 1200, Sackville, N.B. – 17) St. John, N.B. – 18) P.O. Box 700, Sydney, N.S. – 19) P.O. Box 10, Frobisher Bay, N.W.T. – 20) Fort Churchill, Man – 21) P.O. Box 237, Goose Bay, Lab – 22) P.O. Box 160, Yellowknife, N.W.T. – 23) P.O. Box 790, Gander, Nfld – 24) P.O. Box 1538, Fredericton, N.B. – 25) Security Bldg, University & Pelissier, Windsor, O. +126 low power relay st's not mentioned.

Short Waves:

4) CKNX 6160kc 48.70m 0.3kW 11.00–04.00 (Relay CBN).

5) CKZU 6160kc 48.70m 0.5kW 14.00(Sun 15.00)–09.05 (Relay CBU)

Note: Although times are in GMT, calender days apply to Canada only.

4) **N:** 11.00, 11.30, 13.00*, 14.25(not Sat), 15.30 (BBC), 17.00, 19.00 (not Sat), 20.30(Sat only), 21.30, 22.30*, 23.15, 02.00*, 03.30. Sun: 11.00, 12.00, 15.45, 17.00 (BBC), 18.00*, 20.00*, 22.00, 02.00*, 04.00. *=CBC Nat. news – **Wrp:** after N. at 11.00, 15.45(Sun), 17.00(Sat), 22.30.

5) **N:** Mon–Fri 14.00, 15.00, 15.30, 16.00, 16.15, 16.27, 17.00(BBC), 20.15, 22.20, 00.00, 01.30, 06.00, 09.00. Sat 14.00, 15.00, 15.30, 16.00, 16.27, 17.00(BBC), 18.00, 09.00. Sun 17.00(BBC), 03.00, 08.00, 09.00 – **Wrp:** after N. at 20.15(Mon–Fri).

FM: CBU-FM Vancouver 107.5Mc 100kW.

FRENCH NETWORK

Call	kc	kW	Call	kc	kW	Call	kc	kW
1) CBAF	1300	5	3) CBF	690	50	5) CBOF	1250	10
2) CBV	980	5	4) CBJ	1580	10	6) CJBC	860	50

1) P.O. Box 950, Moncton, N.B. – 2) Palais Montcalm, Que – 3) P.O. Box 6000, Montreal, Que – 4) 121 rue Racine Est, Chicoutimi, Que – 5) P.O. Box 3220, Ottawa O – 6) P.O. Box 500, Toronto, O.

+21 power stations not mentioned.

Wilh. Franz KG, Germany: EMT studio equip.

RADIO-CANADA SHORTWAVE CLUB is on the air weekly to Europe, Africa, the Caribbean, the Americas, Australia, New Zealand and the Islands of the Pacific at the times given below. The program runs for approximately 10 mins and can be heard in English, French, German and Czech in the International Service.

ENGLISH: Sat to Europe (1) at 12.35 in 16, 19, 25 m.b's. To Africa at 18.35 in 16, 19, 25 m.b's. To Europe (2) at 21.30 in 19, 25, 31 m.b's. To the Caribbean and the Americas at 23.20 in 19, 25, 31, 49 m.b's. **Sun** to Australasia at 07.50 in 31, 49 m.b's. All English-language programs of Club follow program FOCUS . . .

FRENCH: »Allo DX«: Sat to Africa at 19.50 in 16, 19, 25 m.b's. To Europe at 20.35 in 19, 25, 31 m.b's.

GERMAN: »Radio Kanada Kurzwellenklub«: Sun at 18.00 in 16, 19, 25 m.b's. Also at 18.45 on VHF Berlin 90.2 Mc and in 31 or 41 & 49 or 75 m.b's.

POLISH: Sat at 17.00 in 16, 19, 25 m.b's. Sun at 15.30 in 16, 19, 25 m.b's. - **CZECH:** Every second Sun at 14.45, 17.15 in 16, 19, 25, m.b's. - **HUNGARIAN:** Sat at 18.15 in 16, 19, 25 m.b's.

Broadcast times indicated are approximate.

SUMMER SUPPLEMENT 1966

Prices: US $ 1.80, £ 0/12/0, DM 7.20, D. Kr. 12.25 plus postage: US $ 0.25, £ 0/1/9, DM 0.90 or D. Kr. 1.50 per copy.

LISTENERS' MAIL

is answered and correct information acknowledged with QSL card.

SHORTWAVE

Daily in 11 languages to Europe, Latin America, Africa, North America, the Caribbean and Australasia, news, talks, actualities, musical request and DX programs, Listeners' Corner and Stamp Club.

TRANSCRIPTIONS

Broadcasting organizations are provided with Transcriptions of Canadian music and Spoken-Word Transcriptions in English, French, Spanish and Portuguese.

INTERNATIONAL SERVICE

CANADIAN BROADCASTING CORPORATION

P.O. BOX 6000 • MONTREAL • CANADA

NORTH AMERICA
GREENLAND
1:40 Mill.
KM
0
500
1000
2000
Arctic Ocean
Baffin Bay
Davis Strait
Denmark Strait
Hudson Bay
GULF OF MEXICO
CARIBBEAN SEA
NORTH PACIFIC OCEAN
NORTH ATLANTIC OCEAN
CANADA
UNITED STATES
MEXICO
CENTRAL AMERICA
COLUMBIA
VENEZUELA
GREENLAND
ALASKA
Yukon
North West Territories
British Columbia
Alberta
Saskatchewan
Manitoba
Ontario
Quebec
Labrador
Baffin Isl.
Washington
Oregon
Idaho
Montana
Wyoming
Nevada
California
Arizona
Colorado
New Mexico
Texas
Kansas
Oklahoma
Nebraska
N. Dakota
S. Dakota
Minnesota
Iowa
Wisconsin
Michigan
Illinois
Indiana
Ohio
Kentucky
Tennessee
Missouri
Arkansas
Louisiana
Mississippi
Alabama
Georgia
Florida
S. Carolina
N. Carolina
Virginia
Maryland
Delaware
Pennsylvania
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Massachusetts
Maine
New Foundland
Bermuda
Bahama Islands
CUBA
HAITI
JAMAICA
PUERTO RICO
DOMINICAN REP.
BR. HONDURAS
CARIBBEAN SEA
THULE
UPERNAVIK
ANGMAGSSALIK
GODHAVN
KOOK
GODTHÅB
FREDERIKSHÅB
INUVIK
FAIRBANKS
DAWSON
ANCHORAGE
CORDOVA
WHITEHORSE
YELLOW-KNIFE
HAY RIVER
FORT SMITH
NELSON
CHURCHILL
KOVIK
SCHEFFERVILLE
GOOSE BAY
GRAND FALLS
GANDER
ST. JOHN'S
ST. PIERRE
SYDNEY
SACKVILLE
HALIFAX
EDMONTON
KAMLOOPS
VANCOUVER
KELOWNA
CALGARY
MEDICINE HAT
LETHBRIDGE
SEATTLE
SPOKANE
PORTLAND
PRINCE ALBERT
SASKATOON
WATROUS
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VERCHERES
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BOSTON
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ATLANTA
BIRMINGHAM
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HOLLYWOOD
MIAMI
HABANA
PETIONVILLE
KINGSTON
MERIDA
BELIZE
TEGUCIGALPA
MANAGUA
SAN JOSE
PANAMA
MARACAIBO
MEDELLIN
SACRAMENTO
DIXON
SAN FRANCISCO
FRESNO
DELANO
HOLLYWOOD
LOS ANGELES
TIJUANA
MEXICALI
ENSENADA
SALT LAKE CITY
DENVER
OMAHA
DESMOINES
WATERLOO
MINNEAPOLIS
ST. PAUL
CHICAGO
INDIANAPOLIS
CINCINNATI
LOUISVILLE
NASHVILLE
MEMPHIS
ST. LOUIS
K. CITY
LAWRENCE
TULSA
OKLAHOMA CITY
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DALLAS
SHREVEP
FORT WORTH
HOUSTON
NEW ORLEANS
SAN ANTONIO
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HERMOSILLO
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CIUDAD ACUÑA
NUEVO LAREDO
SABINAS
TORREON
REYNOSA
RIO BRAVO
CORPUS CHRISTI
MONTERREY
SALTILLO
CULIACAN
LA PAZ
ROSARIO
ZACATECAS
TAMPICO
S. LUIS POTOSI
GUADALAJARA
LEON
IRAPUATO
MEXICO CITY
ZAMORA
MORELIA
URUAPAN
PUEBLA
JALAPA
VERA CRUZ
ORIZABA
VILLA HERMOSA
TUXTLA GTRREZ
OAXACA
ZITACUARO
ACAPULCO
GUATEMALA CITY
SAN SALVADOR
MERIDA
CIUDAD JUAREZ
ALBUQUERQUE
DENVER
SAN JUAN
SANTIAGO DE CUBA
GONAIVES
CAP HAITIEN
PUERTO PLATA
SANTIAGO
LA VEGA
SAN CRISTOBAL
PORT AU PRINCE
CIUDAD TRUJILLO
MAYAGUEZ
S. JUAN
MATANZAS
CLARA
GANAGUEY
OLGUIN
70°
60°
50°
40°
30°
20°
10°
140°
130°
120°
110°
100°
90°
80°
HAG588

PRIVATELY OWNED COMMERCIAL BROADCASTING STATIONS

CANADIAN ASSOCIATION OF RADIO AND TELEVISION BROADCASTERS: Head Office, 108 Sparks St, Ottawa 4.
Medium Waves: Stations less 5kW not mentioned. °=Short Wave.

	Call	kc	kW		Call	kc	kW
1)	CFNB	550	50	66)	CKCH	970	5
2)	CHLN	550	10/5	67)	CFPL	980	10/5
3)	CJKL	560	5	68)	CHEX	980	5
4)	CKCN	560	10	69)	CKGM	980	10
5)	CJEM	570	5/1	70)	CKNW	980	50
6)	CFRA	580	50/10	71)	CKRM	980	10/5
7)	CHLC	580	5	72)	CKBW	1000	10
8)	CJFX	580	10	73)	CFRB	°1010	50
9)	CKPR	580	5/1	74)	CFGP	1050	10
10)	CKUA	580	10	75)	CHUM	1050	50
11)	CKY	580	50	76)	CJIC	1050	10/2.5
12)	VOCM	590	10	77)	CKSB	1050	10
13)	CKEY	590	10/5	78)	CJNB	1050	10
14)	CFCF	°600	5	79)	CFCN	°1060	50/25
15)	CFCH	600	10/5	80)	CJLR	1060	10
16)	CFQC	600	5	81)	CHOK	1070	5/1
17)	CJOR	600	10	82)	CKSA	1080	10
18)	CHNC	610	10/5	83)	CHEC	1090	5
19)	CKTB	610	10/5	84)	CHRS	1090	10
20)	CFCL	620	10/5	85)	CKWX	°1130	50
21)	CKCK	620	5	86)	CKXL	1140	10
22)	CKCM	620	10	87)	CHSJ	1150	10/5
23)	CFCY	630	10	88)	CKOC	1150	5
24)	CFCO	630	10/1	89)	CKTR	1150	10/1
25)	CHED	630	10	90)	CKX	1150	10/1
26)	CHLT	630	10/5	91)	CJOC	1220	10/5
27)	CKRC	630	10	92)	CKDA	1220	10
28)	CHFA	680	5	93)	CKCW	1220	10
29)	CJCN	680	10	94)	CKBL	1250	10/5
30)	CJOB	680	10/2.5	95)	CKOM	1250	10
31)	CKGB	680	10	96)	CHSM	1250	10
32)	CFRG	710	5	97)	CFRN	1260	50
33)	CKVM	710	10/1	98)	CHAT	1270	10
34)	CKAC	730	50	99)	CHWK	1270	10
35)	CKDM	730	10	100)	CJCB	°1270	10
36)	CKLG	730	10	101)	CHIQ	1280	5
37)	CFDR	790	5	102)	CJMS	1280	5
38)	CFCW	790	10	103)	CKCV	1280	10/5
39)	CKSO	790	10/5	96)	CFAM	1290	10/5
40)	CHAB	800	10	104)	CFGM	1310	10/2.5
41)	CHRC	800	10	105)	CHGB	1310	5
42)	CJAD	800	50/10	106)	CKOY	1310	50
43)	CJLX	800	10/5	107)	CHQM	1320	10
44)	CKOK	800	10	108)	CJSO	1320	10/5
45)	CKLW	800	50	109)	CKEC	1320	5
46)	CHQR	810	10	110)	CKLB	1350	10/5
47)	CKRD	850	10/1	111)	CKBC	1360	10
48)	CKVL	850	50/10	112)	CKLC	1380	5
49)	CHML	900	5	113)	CKPC	1380	10
50)	CHNO	900	5	114)	CJFP	1400	10/0.25
51)	CJBR	900	10	115)	CFMB	1410	10
52)	CJVI	900	10	116)	CFUN	1410	10
53)	CKBI	900	10	117)	CKSL	1410	10
54)	CFJC	910	10/1	118)	CKFH	1430	10/5
55)	CJDV	910	5	119)	CKPM	1440	10
56)	CJCH	920	10/5	120)	CJOY	1460	10/5
57)	CKCY	920	10/5	121)	CKRB	1460	10/5
58)	CFBC	930	10/5	122)	CFOX	1470	10/5
59)	CJCA	930	10/5	123)	CJOM	1470	5
29)	CJON	930	10	124)	CHYM	1490	10/5
60)	CJGX	940	10	125)	CHFI	1540	50
61)	CKBB	950	10/2.5	126)	CFOR	1570	10
62)	CKNB	950	10/1	127)	CHUB	1570	10
63)	CFAC	960	10	128)	CKLM	1570	10
64)	CHNS	°960	10	129)	CJRN	1600	10
65)	CKWS	960	5				

Short Waves:		kc	kW	
14)	CFCX	6005	0.075	Canadian Marconi Co, Montreal: 24 h
100)	CJCX	6010	1	Cape Breton Broadcasters, Sydney: 09.00–05.00
79)	CFVP	6030	0.1	The Voice of the Prairies, Calgary: 24 h
73)	CFRX	6070	1	R. CFRB, Toronto: 24 h
85)	CFKX	6080	0.01	R. CKWX, Vancouver
64)	CHNX	6130	0.5	Maritime Broadcasting Co, Halifax: 24 h

Medium Waves:

1) **R. Atlantic Ltd**, 67 York St, Fredericton, NB. **L.P:** Dir. Gen: D. M. Neill. St. Mgr: J. T. H. Fenety. Dir. Tec: G. D. Love. **D.Prgr:** 24 h. **N.** On the h and half h; also 16.30(W), 22.15(W). **V.** by letter. Re. in E.

2) **R. Trois Rivières Inc**, 2550 Royal Blvd, Trois-Rivières, Qu.

3) **Kirkland Lake Broadc. Ltd**, Woolworth Bldg, Governm. Rd. West, Kirkland Lake, O.

4) **R. Sept-Iles Inc**, Sept-Iles, Qu. **D.Prgr:** W 10.30–07.00. **N:** On the h and half h. **V.** by letter.

5) **Edmundston R. Ltd**, 99 Canada Rd, Edmundston, NB.

6) **CFRA Broadc. Ltd**, 150 Isabella Str, Ottawa, O. **L.P:** Gen. Mgr: T. Kielty. Chief Eng: G. Roach. **D.Prgr:** 24 h. **N:** Every h and half h. **V.** by QSL-card.

7) **R. Cote-Nord Inc**, Hauterive, Qu. **L.P:** St. Mgr: H. Desjardins. Dir. Tec: G. de Varennes. **D.Prgr:** 11.00–05.00 in French. **N:** On the h. **V.** by letter.

8) **Atlantic Broadc. Ltd**, St. Ninian St, Antigonish, NS. **L.P:** St. Mgr: J. C. Nunn. **D.Prgr:** 09.00–03.15. **N:** 09.00, 11.00, 12.00, 13.00, 14.00, 15.15, 16.00, 18.00, 19.00, 20.00, 22.00, 01.00, 03.15. **V.** by letter.

9) **H. F. Dougall Co. Ltd**, 87 No. Hill St, Port Arthur, O. **L.P:** St. Mgr: J. W. Hagerman. Dir. Tec: W. Pinko. **D.Prgr:** 12.52–08.02. **N. in English:** 14.50, 19.00, 21.50, 00.20, 01.30, 05.00. **Foreign Languages** (Sun): 19.30 English/Welsh/Irish/Scottish, 22.50 German/Dutch, 23.10 Polish/Danish, 23.30 Ukrainian/Norwegian, 23.50 Italian/Swedish, 00.10 Hungarian. **V.** by letter.

10) **University of Alberta**, 10526 Jasper Ave, Edmonton, Al.

11) **Moffat Broadc. Ltd**, 432 Main St, No. Winnipeg, Man. **L.P:** Dir. Gen: R. L. Moffat. St. Mgr: S. Boyling. Dir. Tec: A. Malowanchuk. **D.Prgr:** 24 h. **N:** Every 25th & 55th min of the h. **V.** by letter.

12) **Colonial Broadc. System Ltd**, McBride's Hill, St. John's. Nf. **D.Prgr:** 08.58–03.30. **V.** by letter – 13) **Shoreacres Broadc. Co. Ltd**, 247 Davonport Rd, Toronto 5, O. **D.Prgr:** 24 h. **V.** by letter.

14) **Canadian Marconi Co**, 405 Ogilvy Ave, Montreal 15, Qu. **L.P:** Dir. Gen: S. B. Hayward. Dir. Tec: J. C. Douglas. **N:** Every h on the h. **V.** by QSL-card.

15) **Northern Broadc. Ltd**, Callander, O.

16) **A. A. Murphy & Sons Ltd**, 216 First Ave, No, Saskatoon, Sa.

17) **CJOR Ltd**, 846 Howe St, Vancouver, BC. **L.P:** Dir. Gen: Mrs. G. C. Chandler. St. Mgr: J. Donaldson. Dir. Tec: D. Kalmokoff. **D.Prgr:** 24 h. **N:** Every h. **V.** by letter.

18) **La Cie Gaspésienne de Radiodiff. Ltée**, Rue Principale et Boul. Perron, New Carlisle, Qu.

19) **Niagara District Broadc. Co. Ltd**, P.O. Box 610, St. Catharines, O – **L.P:** Gen. Mgr: Miss M. C. Burgoyne. Dir. Tec: W. H. Allen. **D.Prgr:** 24 h exc. Sun 07.00–12.40. **N:** Every half h 05.00–14.00 and 15.00, 16.00, 17.00, 17.30, 18.00, 19.00, 20.00, 21.00, 22.00, 23.00, 23.30, 04.00. **V.** by QSL-card or letter. **Pub:** Prgr.schedule free.

20) **CFCL Ltd**, P.O. Box 620, Timmins, O. **L.P:** Dir. Gen: J. C. Lavigne. St. Mgr: P. Stein. Dir. Tec: F. Palmer. **D.Prgr:** 11.00–05.00. **N:** 11.00, 11.30, 12.00, 12.30, 12.55, 14.00, 15.00, 15.55, 17.00, 17.30, 18.00, 18.55, 21.00, 22.00, 23.00, 23.30, 03.00, 04.00. **V.** by QSL-card.

21) **Transcanada Communications Ltd**, P.O. Box 6200, Regina, Sa. **L.P:** St. Mgr: J. Struthers. Dir. Tec: H. Dean. **D.Prgr:** 24 h. **N:** Every h on the h. **V.** by QSL-card.

22) **Colonial Broadc. System Ltd**, Grand Falls, Nf.

23) **Island R. Broadc. Co. Ltd**, 85 Kent St, Charlottetown, PEI. **L.P:** St. Mgr: R. F. Large. Dir. Tec: G. M. Tait. **D.Prgr:** 24 h. **V.** by letter. Rp.

24) **Great Lakes Broadc. Ltd**, 42 King St. West, Chatham, O.

25) **R. Station CHED Ltd**, 10006 – 107th St. Edmonton, Al.

26) **La Tribune Inc**, 221 Dufferin St, Sherbrooke, Qu.

27) **Transcanada Communications Ltd**, 300 Carlton St, Winnipeg. Man. **D.Prgr:** 24 h. **V.** by QSL-card and letter.

28) **R. Edmonton Ltd**, 10012 – 109e Rue, Edmonton, Al. **L.P:** St. Mgr: B. J. Gagnon. Dir. Tec: A. Rouleau. **D.Prgr:** 13.50–07.05 in French. **N:** 13.55, 14.28, 15.00, 15.28, 16.00, 17.00, 18.00, 19.15, 20.28, 21.00, 22.00, 23.00, 00.00, 00.30, 00.55. **Ukrainian:** 05.00. **Dutch:** 04.30(Sat), 21.00(Sun). **Italian:** 19.30(Sun). **Polish:** 22.00(Sun). **German:** 22.30(Sun).

29) **Newfoundland Broadc. Co. Ltd.** Prince of Wales St, St. Johns, Nfld. **D.Prgr:** 24 h. **N:** on the h – 30) **R. CJOB Ltd**, 930 Portage Ave, Winnipeg 10, Man – 31) **Timmins Broadc. Ltd**, Thomson Bldg, Timmins, O – 32) **R. Gravelbourg Ltée**, Gravelbourg, Sa.

33) **R. Témiscamingue Inc**, Rue-Saint-Anne, Ville-Marie, Qu.

34) **La Compagnie de Publication de "La Presse" Ltd**, 980 rue Sainte-Catherine-Ouest, Montréal, Qu. **L.P:** Dir. Gen: M. F. Doré, St. Mgr: M. F. Biondi. Dir. Tec: M. L. Spencer. **D.Prgr:** Mon–Fri 10.55–06.05. Sat 10.55–07.05. Sun 12.55–06.05. **N:** Every h on the h 11.00–06.00 exc. 24.00; also 12.30, 13.30. **V.** by letter.

35) **Dauphin Broadc. Co. Ltd**, 3rd Ave, N.E, Dauphin, Man. 24 h.

36) **Moffat Broadc. Ltd**, 1006 Richards St, Vancouver, BC. **D.Prgr:** 14.00–08.00. **N:** On the h. **V.** by letter.

37) **R. Dartmouth Ltd**, Dartmouth, NS.

38) **Camrose Broadc. Co. Ltd**, Box 1600, Camrose, Al. **L.P:** St. Mgr: W. H. Holte. Dir. Tec: L. Olsen. **D.Prgr:** 24 h. **N:** Every 30 min. **Ukrainian:** 04.00(Tues-Sun). **Scandinavian:** 17.30(Sat). **German:** 03.00(Tues/Sat). **V.** by letter.

39) **Cambrian Broadc. Ltd**, 336 Ash St, Sudbury, O. **D.Prgr:** 13.00–07.00 – 40) **CHAB Ltd**, 127 Main St, Moose Jaw, Sa. **D.Prgr:** 12.00–07.00.

41) **CHRC Ltée**, 1143 rue St. Jean, Québec 4, Qu. **D.Prgr:** 11.00–07.00. **V.** by letter. Rp.
42) **CJAD Ltd**, 1407 Mountain St, Montreal, Qu. **L.P:** Dir. Gen: W. C. Thornton Cran. St. Mgr: H. T. McCurdy. Dir. Tec: E. Mott. **D.Prgr:** 24 h. **N:** On the h and 11.30, 12.30, 13.30, 17.30. **V.** by QSL-card – 43) **Lakehead Broadc. Co. Ltd**, Fort William, O.
44) **CKOK Ltd**, P.O. Box 338, Penticton, BC. **L.P:** St. Mgr: R. Robinson. Dir. Tec: H. Mc. Rae. Dir. Prgr: W. B. Heinrich. **D.Prgr:** 14.00–09.00. **N:** Every h on the h exc. 21.00, 22.00, 04.00, 05.00. Also at 14.30, 15.30, 16.30, 17.30, 18.30, 20.30, 21.30, 22.30, 01.30. **V.** by letter. Rp.
45) **Western Ontario Broadc. Co. Ltd**, 825 Riverside Dr, Windsor, O.
46) **Bentley Broadc. Co. Ltd**, 120A 16 Ave. No, Calgary, Al.
47) **Central Alberta Broadc. Co. (1961) Ltd**, 5405 Gaetz Ave, Red Deer, Al.
48) **R. Futura Ltd**, 211 Gordon Ave, Verdun, P.Q. **L.P:** Dir. Gen: J. Tietolman. St. Mgr: C. Thomson. Dir. Tec: M. Rouseau. **D.Prgr:** 24 h. **N:** 5 min before the h. **V.** by QSL-card or letter.
49) **Maple Leaf Broadc. Co. Ltd**, 848 Main St, East. Hamilton, O.
50) **The Sudbury Broadc. Co. Ltd**, 166 Elm St. West, Sudbury, O.
51) **Lower St. Lawrence R. Inc**, 13 St. Jean Baptiste, Rimouski, Qu.
52) **Island Broadc. Co. Ltd**, 817 Fort St, Victoria, BC – 53) **Central Broadc. Co. Ltd**, CKBI Bldg, 10th St, Prince Albert, Sa.
54) **Inland Broadc. Ltd**, 387–4th Ave, Kamloops, B.C. **L.P:** Dir. Gen: St. Mgr: I. G. Clark. Dir. Tec: K. Reichenek. **D.Prgr:** 14.00–08.00. **N:** 5 min before the h and 20.10. **V.** by letter.
55) **Dinosaur Broadc. (1957) Ltd**, Broadc. Bldg. Drumheller, Al.
56) **CJCH Ltd**, 2885 Robie St, Halifax, NS. **D.Prgr:** 24 h. **N:** on the h.
57) **Algonquin R.-TV Co. Ltd**, 254 Queen St. East, Sault Ste. Marie, O.
58) **Fundy Broadc. Co. Ltd**, 68 Carleton St, Saint John, NB. **D.Prgr:** 10.00–05.00 (Sun 12.00–04.15). **V.** by letter.
59) **Edmonton Broadc. Co. Ltd**, 10113–104th St, Edmonton, Al.
60) **Yorkton Broadc. Co. Ltd**, 171 McDermot, Winnipeg, Man (tr at Yorkton, Sa). **L.P:** St. Mgr: G. G. Gallagher. Dir. Tec: H. Kerr. **D.Prgr:** 24 h – 61) **Barrie Broadc. Co. Ltd**, Box 519, Barrie, O. **D.Prgr:** 11.00–04.00. **V.** by letter. Recordings accepted.
62) **Restigouche Broadc. Co. Ltd**, Bank of Nova Scotia Bldg, Campbellton, NB.
63) **Calgary Broadc. Co. Ltd**, 1301 – 17th Ave. S.W. Calgary.
64) **Maritime Broadc. Co. Ltd**, 5230 Tobin St, Halifax, NS. **L.P:** Pres: G. W. Dennis. St. Mgr: F. W. Arenburg. Dir. Tec: A. W. Greig. **D.Prgr:** 24 h. **N:** On the h. **V.** by QSL-card.
65) **Frontenac Broadc. Co. Ltd**, 170 Queen St, Kingston, O. **D.Prgr:** 10.30–06.30 – 66) **La Compagnie de Radiodiff. CKCH de Hull, Ltée**, 72 Laval St. Hull, Qu – 67) **London Free Press Printing Co. Ltd**, 442–446 Richmond St, London, O.
68) **Kawartha Broadc. Co. Ltd**, Box 659, Peterborough, O. **L.P:** Mgr: W. Rewegon. Chief Eng: B. Crump. **D.Prgr:** 11.00–06.00. **N.** Every h on the h. **V.** by QSL-card. Rp.
69) **Maisonneuve Broadc. Corp. Ltd**, 1445 Drummond St, Montreal, Qu. **L.P:** Dir. Gen: G. Stirling. St. Mgr: D. Wall. Dir. Tec: C. Jarrette. **D.Prgr:** 24 h. **N:** Every h on the h. **V.** by QSL-card or letter.
70) **R. CKNW Ltd**, Windsor Hotel, 227 Colombia St, New Westminster, BC – 71) **Cambrian Broadc. Ltd**, 2060 Halifax St, Regina, Sa.
72) **Acadia Broadc. Co. Ltd**, 399 King St. Bridgewater. **D.Prgr:** 10.00–04.15. **N:** On the h. exc. 21.00 01.00. Also 10.30, 11.30, 16.30, 20.55. **V.** by QSL-card.
73) **CFRB Ltd**, 37 Bloor St. West, Toronto. O. **L.P:** St. Mgr: J. Dawson. Dir. Tec: C. Eastwood. **D.Prgr:** 24 h. **N:** Every half h 05.30–14.00, 15.00, 16.00, 16.50, 17.50, 17.30, hourly 18.00–22.00, 22.50, 23.50, hourly 00.00–05.00. **Ann:** CFRX: "You are tuned to CFRX Toronto, Canada, broadc. in the 49 mb on assigned freq. of 6070kc, CFRX broadc. the regular prgr. schedule of CFRB Toronto". **V.** by QSL-card.
74) **Northern Broadc. Corp. Ltd**, 10008 – 103rd Ave, Grande Prairie, Al. **D.Prgr:** 24 h. **N:** On the h exc. 20.00, 21.00, 22.00, 03.00, 04.00, 06.00. Also at 14.30, 19.30, 21.30. **V.** by letter.
75) **R. CHUM-1050 Ltd**, 1331 Yonge St, Toronto 7, O – 76) **Hyland R.-TV Ltd**, 119 East St, Sault Ste. Marie, O.
77) **R. Saint-Boniface Ltée**, 607 rue Langevin, Saint-Boniface, Man. **D.Prgr:** 12.30–06.15 in French. **Foreign Languages** (Sun): 18.30 Jewish, 19.30 Italian, 20.30 Ukrainian, 21.00 Polish, 22.00 Ukrainian, 22.30 German (also Fri 03.30–04.30).
78) **Northwestern Broadc. Co. Ltd**, 1721 Main St, North Battleford, Sa.
79) **The Voice of the Prairies Ltd**, Broadc. House, Calgary, Al. **L.P:** Gen. Mgr: H. Gordon Love. Dir. Tec: R. W. Lamb. **D.Prgr:** 24 h. **N:** Hourly and 20.30. **Ann:** "Dial 1060 CFCN, the Voice of the Prairies, Calgary". **V.** by QSL-card. Recordings accepted.
80) **CJLR Inc**, P.O. Box 4200, Quebec, Qu. **D.Prgr:** 12.00–09.00. **V.** by letter – 81) **Sarnia Broadc. 1964 Ltd**, 148 1/2 N. Front St, Sarnia, O. **V.** by letter or QSL-card. Recordings accepted.
82) **Sask-Alta Broadc. Ltd**, 5036–50th St, Lloydminster, Al.
83) **Southern Alberta Broadc. Ltd**, 401 Mayor Magrath Drive, Lethbridge, Al. **D.Prgr:** 12.00–08.00. **V.** by letter. Recordings accepted.
84) **R. Iberville Ltd**, 2019 Blvd, Taschereau, Jacques-Cartier, Qu.
85) **CKWX R. Ltd**, 1275 Burrard St, Vancouver, BC – 86) **Bow Valley Broadc. Co. Ltd**, 804–16th Ave, SW, Calgary, Al.
87) **New Brunswick Broadc. Co. Ltd**, 85 Germain St, Saint John, NB.
88) **Wentworth R. Broadc. Co. Ltd**, 73 Garfield St, So. Hamilton, O. **L.P:** Dir. Gen: C. Sifton. St. Mgr: D. R. Dawson. Dir. Tec: L. Horton. **D.Prgr:** 24 h. **N:** Every h on the h and 12.30, 13.30, 14.30, 18.30, 00.30. **V.** by letter.
89) **CKTR (1958) Ltée**, 543 rue Gervais, Trois-Rivières, Qu.
90) **Western Manitoba Broadc. Ltd**, 2940 Victoria Ave, Brandon, Man.
91) **Lethbridge Broadc. Ltd**, 1015–3rd Ave, So. Lethbridge, Al.
92) **Capital Broadc. System Ltd**, P.O. Box 967, Victoria, BC. **D.Prgr:** 24 h. **V.** by letter. Rp.
93) **Moncton Broadc. Ltd**, Knights of Pythias Hall, Moncton, NB.
94) **La Compagnie de Radiodiff. de Matane Ltée**, 4 rue Saint Sacrement, Matane, Qu.
95) **Saskatoon Community Broadc. Co. Ltd**, Empire Hotel, Saskatoon.
96) **Southern Manitoba Broadc. Co**, P.O. Box 1000, Altona. Man. **L.P:** St. Mgr: E. Hildebrandt. Dir. Tec: W. Lindenbach. **D.Prgr:** 12.00–07.00. **N:** On the h and at 12.30, 13.30, 14.30, 18.30, 23.30, 00.45. **German:** 04.15(Tues–Sat), 02.00(Sun). **Dutch:** 02.30(Sun). **Ukrainian:** 03.00(Sun). **Italian:** 03.30(Sun). **V.** by QSL-card.
97) **The Sunwapta Broadc. Co. Ltd**, Broadc. House, Jasper Highway, Edmonton, Al. **D.Prgr:** W 12.30–08.00(Sat 09.00), Sun 13.00–08.00. **V.** by QSL-card and/or letter.
98) **Monarch Broadc. Co. Ltd**, Box 880, Medicine Hat, Al – **L.P:** St. Mgr: T. G. Gunter. Dir. Tec: S. Gaffney. **D.Prgr:** W 13.00–08.00. Sun 14.00–07.00. **N:** Every 30 min's. **German:** 14.30.
99) **Fraser Valley Broadc. Ltd**, 50 Yale Rd. East, Chilliwack, BC.
100) **Cape Breton Broadc, Ltd**, R. Bldg, 318 Charlotte St, Sydney, NS.
101) **CHIQ Ltd**, Hamilton, O – 102) **CJMS R. Montreal Ltd**, 1700 Berri St, Montreal, Qu. **L.P:** Gen. Mgr: R. Demers. **D.Prgr:** 24 h in French. **N:** Every half h. **V.** by letter.
103) **CKCV (Québec) Ltd**, 978 rue Saint-Jean, Quebec. **L.P:** Dir. Gen: M. Alain. Dir. Tec: L. Gobeil. **D.Prgr:** 11.00–07.00 in French. **N:** Every half h. **V.** by letter. Rp.
104) **R. Richmond Hill Ltd**, 50 Yonge St, Richmond Hill, O. **D.Prgr:** 24 h. **N:** On the h. **V.** by letter.
105) **CHGB Ltée**, Rue Painchaud, Sainte-Anne-de-la-Pocatière, Qu. **L.P:** Dir. Gen: G. T. Desjardins. St. Mgr: P. E. Hudon. Dir. Tec: M. A. Freve. **D.Prgr:** **French:** 11.00–05.00. **N:** 5 min before the h. **V.** by letter. **Pub:** Prgr.schedule free.
106) **CKOY Ltd**, 635 Richmond Rd, Ottawa, O.
107) **Vancouver Broadc, Associates Ltd**, Vancouver, BC.
108) **R. Richelieu Limitée**, 72, rue du Roi, Sorel, P.Q.
109) **Hector Broadc. Co. Ltd**, 130 George St, New Glasgow, NS.
110) **Lakeland Broadc. Co. Ltd**, 16 Centre St, Oshawa, O.
111) **Bathurst Broadc. Co. Ltd**, 455 Golf St, Bathurst, NB.
112) **St. Lawrence Broadc. Co. Ltd**, 99 Brock St, Kingston, O.
113) **The Telephone City Broadc. Ltd**, 571 West St, Brantford, O. **D.Prgr:** 10.30–06.00 (Su 09.30–04.00). **Portuguese:** Sun 24.00. **Dutch:** Mon 02.00. **V.** by QSL-card.
114) **R. CJFP Ltée**, 1 Christophe Colomb St, Rivière-du-Loup, Qu.
115) **Chateau Broadc. Co**, 2015 Drummond St, Montreal 25, Qu. **L.P:** Pres & Gen. Mgr: C. G. Stanzcykowski. **D.Prgr:** 10.00–06.00 in English/French. **N:** 5 min's before the h. **Italian:** D 23.00, Sun 13.30–17.00. **German:** 01.30 (exc. Mon), 19.00(Sun). **Greek:** D 02.00, Sat 14.30, Sun 13.00. **V.** by letter.
116) **R. CFUN Ltd**, 1900 W. 4th Ave, Vancouver 9, BC – 117) **London Broadc. Ltd**, 343 Richmond St, London, O.
118) **Foster Hewitt Broadc. Ltd**, 1 Greenville St, Toronto, O.
119) **Confederation Broadc. (Ottawa) Ltd**, 140 Wellington St, Ottawa. **L.P:** Gen. Mgr: B. A. Savage. **D.Prgr:** 24 h. **V.** by QSL-card.
120) **CJOY Ltd**, 50 Wyndham St, Guelph, O. **D.Prgr:** 11.00(Sun 12.00)–05.00. **N:** on the h. **Italian:** 01.05(Tues–Sat). **V.** by letter.
121) **R. Beauce, Inc.** 30, rue Saint-Antoine, Ville Saint-Georges, Beauce County, Qu. **D.Prgr:** 11.00–04.00. **N. in French:** 5 min before the h. **V.** by letter. Rp.
122) **Lakeshore Broadc. Ltd**, Pointe Claire, Qu. **D.Prgr:** 10.00–06.00. **V.** by letter.
123) **Winnipeg Broadc. Associates Ltd**, 457 Main St, Winnipeg, Man. **L.P:** Dir. Gen: D. L. Croston. St. Mgr: H. R. Priddle. Dir. Tec: J. J. Pouls. **D.Prgr:** D. exc. Mon 24 h. Mon: 12.00–06.00. **N:** Every h on the h and 12.30, 13.30, 14.30, 18.30. **V.** by QSL-card.
124) **Kitchener-Waterloo Broadc. Co. Ltd**, 125 King St. W. Kitchener.
125) **R. 1540 Ltd**, 13 Adelaide St. East, Toronto, O – 126) **Great Lakes Broadc. Ltd**, 241 W. St. No. Orillia, O. **L.P:** Dir. Gen: D. G. Hildebrand. St. Mgr: D. A. Johns. Dir. Tec: J. Profit. **D.Prgr:** 24 h. **N:** Every h on the h. Also 11.30, 12.30, 13.30, 17.30, 23.30. **V.** by QSL-card.
127) **Nanaimo Broadc. Ltd**, Malaspina Hotel, Front St, Nanaimo, BC.
128) **R. Laval Inc**, 1184 St. Catherine St. West, Montreal.
129) **R. Niagara Ltd**, Park Motor Hotel, Clifton Hill, Niagara Falls, O. **D.Prgr:** 10.30(Sun 12.00)–05.00. **Italian:** Tues–Sat 00.30–01.00, Sat 21.30–22.00. **Hungarian:** Sat 20.00–20.30. **Ukrainian:** Sat 20.30–02.30. Sun: mixture of English and other languages. **V.** by letter. Rp.

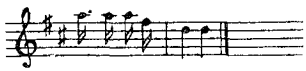
GREENLAND (Danish Territory)

L.T: GMT–3 h – Pr.L: Greenlandic, Danish.

GRØNLANDS RADIO (Gov.)

ADDR: Grønlands Radiofoni, Godthåb. Te: 1172. Cable: Radiofoni.
L.P: Dir. Broadc: Fr. Nielsen. Dir. Tec: E. Hecksher.
STATIONS:
Godthåb 570kc 526 m 25kW – Godhavn 650kc 461.5m 5kW
Frederikshåb 820kc 365.9m 5kW – Godthåb FM 97.2Mc 0.25kW
Shortwaves: Godthåb, 1.5kW: 5960kc 50.34m – 5980kc 50.17m
All mw-prgr's are radiated over the sw-tr's with dir. aerials towards Ea, So & No.
HOME SCE: W 10.30–11.20, 15.00–16.05, 20.30–02.05. Sun 11.30–12.30, 15.00–02.05. N: W 15.30, 21.45. Sun 22.00 – Wrp: W 10.40, 16.00, 21.00, 02.00. Sun 12.25, 16.25, 22.30, 02.00 – Prgr. in Norwegian: Sun 19.00–20.00 (only 15/4–1/10) – Faroese: 20.00–20.40 (only 15/4–1/10) – For Schools: Mon 12.00–15.00, 16.10–17.00; Tues 13.00–15.00, 16.10–17.00; Wed 12.00–15.00, 20.15–20.30.

ANN: "Kalâtdlit-nunâta râdiua – Grønlands radio..." V. by letter or card. Rp – INT-SIG: "Sunia kaligpok" (The Whaleboat "Sonja" drags Whale) played on celeste.



Brown, Boveri: 25 kW tr (Godthåb) – Amplidan: 5kW tr's (Frederikshåb, Godhavn) – Philips: 1.5kW sw-tr's (Godthåb).

SAINT PIERRE ET MIQUELON (French)

L.T: GMT–3 h – Pr.L: French.

OFFICE DE RADIODIFFUSION TELEVISION FRANCAISE (ORTF)

ADDR: St. Pierre et Miquelon. Te: 051. Cable: ORTF – L.P: Dir: C. Ballon. Dir. Tec: L. Langlois.

STATION (System TRT): 1375kc 218.2m 4kW.

HOME SCE. in French: Mon–Fri 10.00–12.00, 15.00–16.30 (Thurs 17.00), 21.30–01.00. Sat 10.00–12.00, 15.00–18.00, 21.30–02.00. Sun 12.30–01.00. N: 10.00(W), 11.00(W), 75.25, 23.05 – Wrp: 15.35, 23.01, 23.30 – ANN: "Ici St. Pierre et Miquelon office de Radiodiff. Télévision Française" – INT-SIG: The first movements of "3 Pieces" by J. Ibert (to be changed) – V. by letter. Recordings accepted.

UNITED STATES OF AMERICA

L.T: See World Time Map and Table – Pr.L: English.

VOICE OF AMERICA (Gov.)

"THE VOICE OF AMERICA" is operated by the Broadcasting Service of the United States Information Agency. The VOA seeks to promote an increased understanding of the United States among the peoples of the world and to strengthen cooperative international relations.
ADDR: Voice of America, U.S. Information Agency, 330 Independence Av, S.W, Washington 25, D.C. – L.P: Dir. US Information Agency: Leonard H. Marks. Dir. Broadc. Sce: John Chancellor. Prgr. Mgr: Alexander A. Klieforth. Engineering Mgr: Edgar Martin. Dir. TV Sce: George Stevens, Jr.

STATIONS: Call-letters not used.
Delano (50/100/200kW): Delano, California – Dixon (50/100/200kW): Dixon, California – Bound Brook (50kW): Bound Brook, New Jersey – Bethany (110kW): Bethany, Ohio – Greenville (50/250/500kW): Greenville, No. Carolina – Honolulu, Hawaii (100kW) – Marathon, Florida (50kW – 1180kc) – Sugarloaf, Florida (50kW – 1040kc).
East Coast Stations:
Unmarked=Greenville; *=Bethany; **=Bound Brook.

kc	m	kc	m	kc	m	kc	m
5975	50.21	*9650	31.09	11940	25.13	15410	19.47
5995	50.04	**9665	31.04	11950	25.10	15415	19.46
6030	49.75	9670	31.02	11955	25.09	15430	19.44
6055	49.55	9710	30.90	15150	19.80	17710	16.94
6125	48.98	9725	30.85	15155	19.80	17740	16.91
*6190	48.47	9760	30.74	15205	19.73	17745	16.91
9525	31.50	9770	30.71	15230	19.70	*17765	16.89
9530	31.48	11760	25.51	15235	19.69	17780	16.87
9540	31.45	*11770	25.49	15250	19.67	17800	16.85
9560	31.38	11805	25.41	15280	19.63	17830	16.83
9565	31.36	11815	25.39	15330	19.57	17875	16.79
9585	31.30	11830	25.36	**15350	19.54	*21485	13.96
9590	31.28	11870	25.27	*15355	19.53	*21610	13.88
9635	31.14	*11890	25.23	15395	19.49	21650	13.88
9640	31.12	11920	25.17	15400	19.48		

West Coast Stations: Unmarked=Delano; *=Dixon.

kc	m	kc	m	kc	m	kc	m
5965	50.20	9665	31.04	*11830	25.36	15410	19.47
*5985	50.13	9700	30.93	*11880	25.25	*17735	16.92
*6085	49.30	9760	30.74	11895	25.22	17765	16.89
*6145	48.82	*11720	25.60	*15255	19.66	17820	16.84
6185	48.50	11775	25.48	15275	19.64	*17850	16.81
9520	31.51	11790	25.45	*15290	19.62	21460	13.98
*9545	31.43	11805	25.41	15365	19.52	*21650	13.86
*9605	31.23	11810	25.40	*15395	19.49		

Honolulu: see Hawaii.

RELAY STATIONS:
For freq's of the relay stations, refer to the individual countries: Germany, Greece, Great Britain, Liberia, Morocco, Ceylon, Philippines, Ryukyu Islands.

ANNOUNCEMENT:
Each prgr. ends with these words spoken in English: "This program has come to you from the United States of America". The station identification is then announced in English.

INTERVAL SIGNAL:
20 second variations on the theme of "Columbia, the Gem of the Ocean". This musical symbol is played at the beginning of a transmission, during station breaks, and at the conclusion of a transmission.

VERIFICATION by QSL-card. No return postage required.

To Europe

	U.S.m.b.	Relay stations m.b.
ALBANIAN		
20.00–20.30	13, 19, 25	31, 41, 49, 379
22.00–22.30	16, 19	31, 49
ARMENIAN		
14.30–15.00	13, 16, 19	16, 19, 25, 31
16.00–16.30	13, 16, 19	19, 25, 31
BULGARIAN		
04.15–04.30	31, 49	41, 49
17.30–18.00	13, 16, 19	31, 41, 49, 379
19.30–20.00	19, 25	31, 25, 41, 49, 379
CZECH-SLOVAK		
04.45–05.00	31, 49	41, 49, 251
05.45–06.00	31, 49	41, 49
20.00–20.30	19, 25	31, 41, 49, 251
22.00–22.30	19, 25	25, 31, 41
ESTONIAN		
03.15–03.30	31, 49	41, 49
18.00–18.30	16, 19	25, 41, 49
20.30–21.00	19, 25	31, 41, 49
GEORGIAN		
14.00–14.30	13, 16, 19	16, 19, 25, 31
15.00–15.30	13, 16, 19	19, 25, 31
GREEK		
17.00–17.15	16, 19	25, 31, 41, 49, 238
17.15–17.30	13, 16, 19	25, 31, 41, 49, 238, 379
HUNGARIAN		
05.15–05.30	31, 49	41, 49
06.15–06.30	31, 49	41, 49
18.30–19.00	13, 19, 25	25, 31, 41, 49, 251
21.30–22.00	16, 19	19, 25, 41, 49
22.30–23.00	19, 25	31, 41, 49, 379
LATVIAN		
03.00–03.15	31, 49	41, 49
17.30–18.00	16, 19	41, 49
19.00–19.30	19	41, 49
LITHUANIAN		
03.30–04.00	31, 49	41, 49
17.00–17.30	13, 16, 19	25, 41, 49
18.30–19.00	16, 19	41, 49
POLISH		
05.00–05.15	31, 49	41, 49
06.00–06.15	31, 49	41, 49
16.30–17.00	13, 16, 19	25, 41, 49
19.30–20.00	19, 25	31, 41, 49, 251
21.30–22.00	19, 25	25, 31, 49, 251

RUMANIAN	US m.b.	Relay stations m.b.
04.00–04.15	31, 49	41, 49
18.00–18.30	13, 19	25, 31, 41, 49
18.30–19.00	—	379
20.30–21.00	13, 19, 25	31, 41, 49, 379
RUSSIAN		
03.00–04.00	31, 49	31, 41, 49, 251
04.00–05.00	31, 49	31, 41, 49
15.00–17.15	13, 16, 19	19, 25, 31, 41, 49
17.15–18.00	13, 19	25, 31, 41, 49
18.00–21.00	19, 25	25, 31, 41, 49
SERBO-CROAT		
04.30–04.45	31, 49	41, 49, 251
05.30–05.45	31, 49	41, 49
19.00–19.30	13, 19, 25	25, 31, 41, 49, 251, 379
21.00–21.15	19, 25	31, 41, 49, 251, 379
SLOVENE		
17.00–17.15	13	31, 41, 49
21.15–21.30	19, 25	41, 49, 251
UKRAINIAN		
15.30–16.00	13, 16, 19	19, 25, 31

To Africa

ARABIC		
17.30–18.00	16, 19	13, 19, 49
19.00–19.30	19, 25	13, 19, 49
FRENCH		
19.30–22.00	13, 16, 19	19, 41, 49 (also 251m 20.30–21.00)
HAUSA		
16.30–17.00	13, 16, 19	
SWAHILI		
17.00–17.30	16, 19	13, 19, 49
18.30–19.00	19, 25	13, 19

To Near- and Middle East

ARABIC		
04.00–06.00		41, 49, 238
17.30–21.30		41, 49, 238
TURKISH		
16.30–17.00	13, 16, 19	25, 31, 41, 49, 238
17.30–18.00		25, 31

To South Asia

BENGALI		
01.00–01.30*	16, 19	13, 16, 19
01.30–02.00**	16, 19	13, 16, 19
HINDI		
14.30–15.00		16, 19, 25, 41
15.30–16.00		16, 19, 25, 41
TAMIL		
14.00–14.30		13, 16, 19, 25, 41
URDU		
15.00–15.30		13, 16, 41
16.00–16.30		16, 19, 25, 41

* to India; ** to Pakistan.

To Far East

BURMESE		
00.30–01.30	13, 16, 19	13, 16, 19
08.00–08.30	31, 49	—
12.00–12.30	—	16, 19, 25
12.30–13.00	31, 49	16, 19, 25
15.30–16.30	—	16, 19
CAMBODIAN		
13.00–13.30	—	16, 19, 25, 263
13.30–14.00	31, 49	16, 19, 25, 263
CHINESE		
22.30–23.00	13, 16, 19	25, 31, 41, 49, 326
*23.30–24.00	—	16, 19, 25, 31, 49
*00.30–01.00	—	16, 19, 25, 31, 49
10.00–11.00	31, 49	16, 19, 25, 31, 49, 255
11.00–11.30	—	16, 31, 49, 255
11.30–12.00	—	16, 31, 41, 49
12.00–12.30	31, 49	16, 31, 41, 49, 255
12.30–13.30	—	16, 31, 41, 49, 255
13.30–14.00	31, 49	25, 31, 41, 49, 255
14.00–14.30	—	25, 31, 41, 49, 255
14.30–15.00	31, 49	25, 31, 41, 49, 255, 263
*15.00–15.30	—	25, 31, 41, 49, 255
15.30–16.00	31, 49	25, 31, 41, 49, 255
INDONESIAN		
11.00–12.00	31, 49	16, 19, 25
14.30–15.30	—	16, 19, 25
KOREAN		
21.30–22.30	13, 16, 19	31, 41, 49
22.30–23.00	—	41
13.00–14.00	31, 49	49
14.00–14.30	—	255
LAOTIAN		
23.30–00.30	13, 16, 19	19, 25, 31
RUSSIAN		
09.00–10.00	31, 49	16, 19, 25, 49
THAI		
23.30–24.00	13, 16, 19	25, 31
14.00–14.30	31, 49	16, 19, 25, 263
VIETNAMESE		
22.30–23.00	13, 16, 19	25, 31, 41
04.30–05.00		19, 25, 31
11.00–11.30	31, 49	25, 31, 41, 394
11.30–12.00	—	31, 41, 394
12.00–12.30	—	25, 31, 41, 263, 394
12.30–13.00	31, 49	25, 31, 41, 263, 394
13.00–14.30	—	25, 31, 41, 49, 394
14.30–15.00	31, 49	25, 31, 41, 49, 394
15.00–16.00	31, 49	25, 31, 41, 49, 263, 394
16.00–16.30	—	25, 31, 41, 49, 394

To Latin America

SPANISH	U.S. (kc)
11.00–14.00	1040, 1180, 6190, 9525, 11890, 15230, 17830
22.30–23.00	1040, 1180, 6190, 11955, 15400
23.00–02.00	1040, 1180, 5975, 6190, 9670, 9725, 11955, 15355, 15400
02.00–04.30	1040, 1180, 5975, 6190, 9670, 9725, 11955
PORTUGUESE	
21.30–22.00	9550, 11830(Mon–Fri only), 15250
22.00–01.00	9530, 11830(daily), 15250

Programs in English

TO EUROPE	U.S. (kc)	Relay Stations (kc)
03.00–06.00	5995, 9635	3980 M, 5965 T, 7200 B, 7250 T, 1196 M (04.00–04.30)
06.00–07.30	5995, 9635	1196, 3980, 6040 M, 5965, 15295 T, 7200, 9740 B
14.00–15.00	15205, 17780	3980 M, 15290 T
15.00–16.00	15205, 17780	3980 M, 15290 T, 7205 TH
16.00–17.00	15205, 17780	3980 M, 7205 TH, 1196 M
17.00–18.30	15205, 17780	1196, 3980 M, 5995 T, 7205 TH
18.30–22.15	9710, 11760, 15205	3980 M, 5995, 9565 T, 7205 TH
22.15–22.45	—	5995, 9565 T, 7205 TH
22.15–23.45	—	1196, 3980 M
TO EAST AFRICA		
03.00–04.30	—	6165, 7195, 7280 L
04.30–06.00	—	7195, 7280 L
06.00–07.30	—	11735 M, 7195 L
14.00–17.00	—	15265, 15445, 21670 L
17.00–19.30	—	15270, 15445 L
19.30–21.30	—	15270, 15445 L
TO SOUTH AFRICA		
15.00–18.30	—	15270 L
TO WEST & CENTRAL AFRICA		
03.00–04.30	5995, 9635	6165, 7195, 7280 L
04.30–05.00	5995, 9635	6035, 7195, 9530 L
05.00–07.30	5995, 9635	6035, 7195, 9530 L, 11925 B
14.00–15.00	15410, 17710, 21740	15445, 15265 L, 21670
15.00–17.00	15410, 17710, 21740	6035, 15265, 15445 L
17.00–18.00	15410, 17710, 21740	11760, 15265, 15445 L
18.00–19.00	15415, 17710, 21740	3990, 6035, 15270 L
19.00–21.30	15415, 17710, 21740	3990, 7195, 15270 L
21.30–22.15	15415, 17710, 21740	3990, 7195, 15270 L
22.15–23.45	—	3990, 6035, 7195 L
TO MIDDLE EAST		
03.00–06.00	—	7200, 9740 B, 9540 M, 5965, 9615, 7250 T
06.00–07.30	—	1259, 6015, 7130 R, 9740 B, 9540 M, 5965, 7250, 9615, 15295 T
14.00–15.00	—	15290, 17855 T, 6015, 7130 R
15.00–16.00	—	15290 T, 7205 TH, 6015, 7130 R, 9760 M

VOICE OF AMERICA

BROADCASTS IN 38 LANGUAGES AROUND THE CLOCK AROUND THE GLOBE

U. S. INFORMATION AGENCY
WASHINGTON, D. C. 20547

	US (kc)	Relay Stations (kc)
16.00–16.30	—	15290 T, 1259, 6015, 7130 R, 9760 M
16.30–17.00	—	7205 TH, 5995, 15290 T, 9760 M
17.00–19.00	—	7205 TH, 5995, 9615, 9760 M
19.00–22.15	—	7205 TH, 5995 T, 9760 M
TO SOUTH ASIA		
01.00–03.30	—	7275, 11835 G
12.00–14.00	—	7110, 11835, 15285 C
14.00–15.00	—	15285 C
15.00–15.30	—	11835 C
15.30–16.30	—	7275 C
16.30–18.00	—	7110, 7275, 11835 C
TO EAST ASIA		
22.00–22.30	15365, 17850	15105 H, 6075, 7175 OK, 6185, 7135, 7275, 9580 P
23.00–23.30	15365, 17850	11715 OK, 6185, 7135, 9580 P
00.00–00.30	15365, 17850	11715, 15150 OK, 6185, 9580, 15210, 17735 P
01.00–01.30	15365, 17850	9580 P
09.00–11.15	6145, 9520	11735 P, 9650 H, 7135 OK
11.15–12.00	—	7135 OK, 9650 H, 11735 P
12.00–12.30	6145, 9520	7165 OK, 9650 H, 11735 P
12.30–14.00	—	7135 OK, 11735 P
14.00–16.30	6145, 9520	5975 H, 7135 OK, 7275 P
TO SOUTH EAST ASIA & INDONESIA		
09.00–11.00	—	11865, 15155, 17820 P
11.00–13.30	—	15155 P
14.00–16.00	—	9560 P
16.00–16.30	—	1140, 9560, 9655 P
22.00–22.30	—	17800 H, 9590, 9700, 11860 P
23.00–23.30	—	9700, 11860 P
00.00–00.30	—	11860 P
01.00–01.30	—	11860, 15185, 15210, 17735 P
TO OCEANIA		
09.00–12.30	5985, 9665	11845 H
TO LATIN AMERICA	**U.S. (kc)**	
23.00–03.30	6030, 9530, 9565, 9650, 11830, 11890, 15205 (from 01.00)	

Transmitter Abbreviations: G=Greenville, No. Carolina; R=Rhodes; B=BBC, London; C=Colombo; H=Honolulu; L=Liberia; M=Munich; OK=Okinawa; P=Philippines (Malolos & Poro); T=Tangier; TH=Thessaloniki.

News in English: 00.00, 01.00, 01.00*, 02.00, 03.00*, 04.00, 04.30, 05.00, 05.30, 06.00, 06.30, 07.00, 09.00, 10.00, 11.00, 12.00, 13.00, 14.00, 14.00*, 15.00*, 16.00*, 16.00, 17.00, 18.00, 19.00*, 20.00, 21.00, 21.00*, 21.30(r), 22.00*, 22.15*(r). * N. in Special English. **News in Portuguese** (dictation): 21.30(Mon–Fri) – **News in Spanish** (dictation): 22.30(Mon–Fri) – **N. in French, Russian:** at the beginning of prgr.

ARMED FORCES RADIO and TELEVISION SERVICE

ADDR: Hqs: Directorate of Armed Forces Information and Education, Washington D.C, 20305.

This office exercises over-all policy control of the Armed Forces Radio and Television Service. The mission of AFRTS is to keep U.S. Service men and women stationed outside the States the best informed service personnel in the world on current events. **All broadcasts are in English.** News, sports and other timely matter is beamed overseas directly by ten powerful tr. on the U.S. Atlantic and Pacific coasts. These s.w. broadcasts serve the overseas radio stations, which rel. them locally. Prgrs. other than news and locally produced prgrs. are derived directly from the U.S. Commercial radio and tv. networks. N. is compiled from the wires of A.P. and U.P.I. and include voice actuality and "from the scene" report segments. Regular shortwave prgr's are presented daily from both Los Angeles and New York City. The operational headquarters of AFRTS, at Los Angeles, ships undated radio and tv. prgrs. on transcription and film, respectively, to overseas stations, and controls the Pacific Shortwave Service.

PACIFIC SERVICE (from Los Angeles):

ADDR: AFRTS Shortwave 1016 No. McCadden Place, Los Angeles. Calif. 90038. **Te:** Hollywood 23301 – **L.P:** Officer-in-charge: Col Robert R. Eby, USAF.

D.PRGR'S: 21.30–16.30.

Call	kc	m	kW	Beam	H of tr.
DL4	5965	50.29	100	Far East	07.00–16.30
DL3	9700	30.93	50	Far East	03.15–16.30
DL2	9760	30.74	50	Caribbean	02.30–14.00
DL2	11790	25.45	50	Caribbean	23.00–02.00
DL5	11895	25.22	50	Far East	03.00–07.00
PHL	15210	19.72	35	So. East Asia	07.00–10.30
DL4	15410	19.47	100	Far East	21.30–04.00
DL3	17765	16.89	50	Far East	21.30–03.00

N: 22.00, 23.00, 00.00, 01.00, 02.00, 02.45, 06.00, 07.00, 07.30, 11.00, 12.00, 13.00, 14.00, 15.00, 16.00 – **Conference Calls:** 22.30, 07.45, 13.30. **ANN:** At the end of prgr: "This is the United States Armed Forces Radio and Television Sce". Hourly: "--- broadc. on U.S. Government tr's at Delano, California" – **V.** by QSL-card (Freq's are announced 30 min's past each h).

EUROPEAN SERVICE (from New York).

ADDR: Armed Forces Press, Radio and Television Service, 250 West 57th Street, New York, N.Y. 10019 – **L.P:** Officer-in-Charge: Colonel J. D. Hornsby, USAF.

Call	kc	m	kW	Beam	h of tr.
BB1	11790	25.45	50	Europe	19.00–22.45
BB3	15330	19.57	50	North Africa	13.30–22.45
BB2	15330	19.57	50	Caribbean	13.30–22.45
GB4	15430	19.44	250	Europe	13.30–22.45

N: 14.00, 15.00, 16.00, 17.00, 18.00, 19.00, 20.00, 21.00, 22.00 – **Conference Call:** D 13.30, 22.30, Mon–Fri 16.45.

ANN: "This is the United States Armed Forces Radio and Television Service" – **V.** by QSL-card – **PUB:** Prgr.sched. published quarterly, available on request.

A.F.R.T.S.s OUTLETS BROADCASTING

Abbreviations: A=Army – AFKN=American Forces Korea Network FEN=Far East Network – N=Navy – AF=Air Force – Fo=Fort – Cp=Cape.

The greater majority of the station operate from 06.00–24.00 L.T.

NORTH ATLANTIC

Location	Sce.	kc	W
Azores			
Lajes Fld			
Terceira	AF	1500	200
Greenland			
Sondrestrom	AF	1420	250
Thule	AF	1425	1kW
Iceland			
Keflavik	N	1484	250
Hoefn	AF	1400	10
Langanes	AF	1400	10
Labrador			
Saglek Bay	AF	1350	45
Hopedale	AF	975	50
Newfoundland			
Argentia	N	1480	50
Stephenville	AF	1490	50
Alaska			
Adak	N	890	250
Bethel	AF	1490	10
Cape Newenham	AF	1450	10
Cape Lisburne	AF	1580	10
Cp. Prince of Wales	AF	1490	10
Cold Bay	AF	1490	50
Driftwood Bay	AF	1450	10
Elmendorf	AF	860	10
Fairbanks	AF	1490	50
Fire Island	AF	1470	10
Fo. Greely	A	980	250
Fo.Richardson	A	1360	50
Fo. Wainwright	A	1360	50
Fo. Yukon	AF	1520	10
Indian Mountain	AF	1240	10
King Salmon	AF	790	250
Kodiak	N	960	250
Kotzebue	AF	1340	10
Murphy Dome		1570	10
Nome	AF	590	1kW
NortheastCape	AF	1450	10
Port Heiden	AF	1340	10
Port Moller	AF	800	10
Shenya	AF	1240	10
Site Love	AF	1340	10
Sparrewohn	AF	1550	10
Takotna	AF	1540	10
Unalakleet	AF	1400	10
Wildwood	AF	1530	10

CARIBBEAN AREA

Ascension Isl.	AF	1600	250
Trinidad	N	1550	1kW
Cuba			
Guantanamo Bay	N	1340	1kW
Panama			
Fo. Clayton	A	790	5kW
Fo. Davis	A	1420	5kW
Puerto Rico			
Fo. Allen	A	1470	50
Fo. Frooke	A	1470	50
Ramey	AF	780	50
Roosevelt Roads	N	1200	50

MIDDLE EAST AREA

Asmara			
Eritrea	A	1480	100
Teheran, Iran	A	630	250
Turkey			
Adana	AF	1594	10
Cerkezluiyuk	AF	1000	50
Karamursel	AF	1570	25
Diyarbarkir	AF	1570	6
Samsun	AF	1250	10
Trabzon	AF	1580	10
Pakistan			
Peshawar	AF	850	10

NORTH AFRICAN AREA

Libya			
Tripoli	AF	1594	1kW
Morocco			
Nouasseur	AF	1594	100
P. Lyautey	N	1484	250
Sidi Slimane	AF	1594	250

EUROPEAN AREA

Germany (see Germany)			
Greece			
Athens	AF	1594	1kW
Iraklion, Crete	AF	1570	250
Spain (see Spain)			
Italy			
Leghorn	AF	540	5
Verona	AF	540	5
Vicenza	AF	540	5

FAR EAST AREA

Japan (FEN) (see Japan)			
Okinawa	AF	650	10kW
Philippine Islands			
CampJohnHay	AF	1300	250
Clark AFB	AF	1520	1kW
San Miguel	N	1520	25
Sangley Point	N	1220	250
Subic Bay	N	1300	250
Taiwan			
Taichung	N	920	300
Tainan	AF	1580	250
Taipei	N	1560	5kW
	N	7215	1kW

Advertisement

RADIO NEW YORK WORLDWIDE

PROGRAM NEWS

JULY TO NOV. 1965

STATION CALL: WRUL

WORLDWIDE COMMUNICATION CENTER • 4 WEST 58th STREET • NEW YORK 19, N.Y., U.S.A.

Live Amex reports on; New stock list ready

Following the success of daily live reports from the New York Stock Exchange by Flora Griffin (see photo below) and Dorothy Higgins, Radio New York Worldwide has recently arranged for similar live pickups direct from the American Stock Exchange (Amex), four times each trading day.

In addition, RNYW has added a special daily business analysis at 2050 GMT with Professor Myron J. Spencer, director of the Graduate School of Business Administration, Northeastern University.

Also effective with the publication of this schedule, Radio New York Worldwide has begun broadcast of the new list of stocks on the "Worldwide Investor's Digest" based on 22,046 votes cast by listeners for individual issues. Copies of list may be obtained by writing Radio New York Worldwide, New York 19, New York, U.S.A. The Worldwide Investors Digest is presented 3 times weekly by the brokerage firm of Merrill Lynch, Pierce, Fenner and Smith.

"THE PERSONALITY CULT" — left to right Hill Edell, John Anthony Zee, Les Marshak, Kelly Fitzpatrick and André Mostert — individual approaches to the Worldwide Hit Parade, heard daily at 1600 GMT.

Flora Griffin, one of the voices of the New York Stock Exchange, at her Gallery post.

Radio New York Worldwide Expands 'Pop' coverage

In a mood designed to give greater variety and more time to popular American music (as well as the many fine imports now heading the lists in America) Radio New York has produced major changes in its popular music program schedule. Most important [illegible] is the added di[illegible] Hit Para[illegible] at 1600 [illegible] RNYW's [illegible] Bernam, [illegible] Kelly F[illegible] gether [illegible] Cult."

Hill Edell, Radio New York's veteran music master, now adds a new program to his popular "Command Performance" daily at 1730 GMT. For late evening listeners in Europe and suppertime folk in the Caribbean, "Hill's Place" features a potpourri of good music and personality [illegible] daily at 2200 GMT.

[illegible] "Breakfast in New [illegible]

If you would like to receive a copy of this program guide regularly, please send this coupon to:

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4 West 58th Street
New York N.Y. 10019, U.S.A.

Name .....
Address .....
City .....
State .....
Country .....

If you have already mailed us a coupon, please do not send another.

W-66

FOR YOUR FREE... PROGRAM NEWS... SEND THIS COUPON

RADIO NEW YORK WORLDWIDE

Worldwide Communications Center

4 West 58th Street New York N.Y. 10019, U.S.A.

FOR COMPLETE PROGRAM LISTING SEE PAGE 209

Some Exciting and Important Radio New York Worldwide programs

ENGLISH

Breakfast in New York: The excitement of New York at the start of a new day as reflected by its music and conversation. John Anthony Zee conducts this daily feature, beginning at 1200 GMT.

Chroniscope: A full 35-minutes of news and comment, including news by continent with special reports for Asia, Europe, Africa and the Americas; direct broadcasts from the New York Exchange, featuring latest financial news; sports and background to the news; presented six times daily.

The Worldwide Hit Parade: Radio New York Worldwide's most popular program, featuring five full hours of the hits of today and tomorrow in the pop field, jazz, and country music. Albums and singles will be featured at 1600 GMT, Monday through Friday.

This World We Live In: With Hill Edell. The variety program with exciting conversation, music, and the popular feature "Listener's Request", beginning at 1730 GMT, Monday through Friday.

Special Programs: Radio New York Worldwide has a variety of exciting special programs every week, including interviews with famous people. Check your programs like "Report From New York", "Mel In Manhattan", "Book World", "Travel Worldwide", "Great Moments In History", "Commerce Worldwide", and "The Barry Farber Show".

The Sounds of New York: Weekly review of the exciting sounds and people that make news and music in the great metropolis.

SPANISH

Prisma Continental: The nightly feature of late news, and direct reports, from spanish speaking correspondents around the world.

Radar: A daily variety program beginning at 2200 GMT, including interviews, comments, sports results, late news, and, most of all, the best in popular music.

Clave: A fast moving program of great variety, featuring a pot-pourri of the best of Radio New York Worldwide program features.

Always . . . in English or Spanish, complete coverage in depth of the major news and sports events of our time ... on Radio New York Worldwide. See complete station listing on page 209.

Location	Sce.	kc	W		Sce.	kc	W
Republic of Korea (AFKN)				Andersen	AF	1090	250
see Korea				**JohnstonIsland**	AF	1250	100
Vietnam				**Marshall Islands**			
Saigon	N	820	1kW	Eniwetok	N	1385	250
PACIFIC AREA				Kwajalein	N	1220	1kW
Guam				MidwayIsland	N	900	250
Finegayan	N	1550	50	Wake Isl.	AF	1490	250

Proposed new outlets: Brindisi (Italy), Cakmaklik, Corlu, Erzurum, Izmir (Turkey) 1000kc.

PRIVATE INTERNATIONAL STATIONS

INTERNATIONAL BROADCAST STATION KGEI

FI: By donations, non profit, non-comm. org's. KGEI (the Voice of Friendship) is owned and operated by the Far East Broadc. Co. Inc. Whittier, California.
ADDR: P.O. Box 15, San Francisco, Calif. **Te:** 591-4820. **Cable:** "Febcom-Sfran" – **L.P:** St. Mgr: J. R. Bowman. Dir. Tec: J. L. Brooks. Dir. Prgr: S. P. Jeter.
STATIONS (d, Latin America) 50kW:
9715kc 30.88m – 11710kc 25.62m – 15240kc 19.69m
LATIN AMERICAN SCE: Mon–Sat 22.15–05.00; Sun 22.15–04.10 (On 15240kc to 02.00; On 9715kc from 02.00).
N. in English-Spanish: Mon–Fri 23.00–23.15. – **English:** Mon–Fri 04.47–04.53; Sat 23.30–24.00, 03.45–04.30. Sun 23.30–24.00, 03.30–04.00. **Portuguese:** Sat/Sun 22.30–23.00. – **Russian:** D. 22.30–23.00. **N. in Spanish:** W 00.00, 01.00, 02.00,(exc. Sat), 03.00 03.30 **L.L:** (English by Radio): W 00.05–00.30, 03.05–03.30.
April–Nov. 9715kc is replaced by 11710kc.
ANN: E (Sign on): "This is the Voice of Friendship, International broadc. st. KGEI, San Francisco, Calif, the United States of America, owned and operated by the Far East Broadc. Company on a freq. of ... KGEI is dedicated to the purpose of promoting good will, better understanding and friendship among the peoples of the Americas" – **INT-SIG:** Sign off with anthem "the Lords Prayer" followed by Nat. Anthem – **V.** by QSL- card (sent on request). Recordings and tapes accepted.

WORLD INTER-NATIONAL BROADCASTERS (WINB), INC.

Comm. station which purpose is to promote the God of the Bible and Country – **ADDR:** P.O. Box 88, Red Lion, Penna. 17356.
STATIONS: WINB 50kW 11795kc 25.43m – 17720kc 16.93m.
D.PRGR. in English (to Mediterranean, So. Europe, Near East, No. Africa): 17.00–20.00 on 17720kc, 20.02–22.00 on 11795kc – **N:** 17.01, 20.03(W) – **Music:** 19.30 – **Mr. & Mrs. Show:** 17.05 – **Mailbag:** Sat 21.45.

RADIO NEW YORK WORLDWIDE (WRUL)

Operated by International Educational Broadc. Corpo.
FI: By adv – **ADDR:** Worldwide Communication Center, 4 West 58th Str, New York City 19, N.Y. **Te:** Plaza 2-3322. **Cable:** WRULINT 224302 (via RCA), WRULINT 421047 (via IT & T) – **L.P:** Pres: R. Brent. Vice Pres. News and Operations: M. Krauss. Vice Pres. Adm: R. Grefe. Vice Pres. Business Development: M. Foster. Dir. Prgr. Development: M. Bernam. Dir. Eng. Language Section: J. Lowry. Dir. Latin American Operations: M. Bomar. Dir. Transmitter Engineering: L. MacDonald. Dir. Studio Engineering: J. Garafalo. Dir. Traffic: B. Patch. English Broadcasters: J. Lowry, H. Edell, O. Rose, J. A. Zee, L. Marshak, A. Mostert, M. Bernam, J. Money, M. Bartlett, B. Patch. Spanish Broadcasters: M. Bomar, J. Lefcovich, T. Arriagada, T. Alba, L. Uncal, A. Carvallo, J. Vergara, L. de Olivares, M. Matas and field correspondents in all Latin American countries.
STATIONS: 50/80kW. Freq's subject to approval by the FCC.

kc	m	kc	m	kc	m	kc	m	kc	m
6015	49.88	9685	30.98	11800	25.42	11970	25.06	15440	19.43
6030	49.75	9740	30.80	11855	25.31	15290	19.62	17710	16.94
9550	31.41	11725	25.59	11880	25.25	15310	19.60	17730	16.92
9615	31.20	11790	25.45	11960	25.08	15385	19.50	17845	16.81

ENGLISH SERVICE
To Europe: 12.00–13.55 on 15290/17710kc, 13.55–14.00 on 15290kc, 14.00–14.05 on 17845kc, 14.05–18.45 on 15440/17845kc, 18.45–19.00 on 15440kc, 19.00–19.45 on 11970/15440kc, 19.45–21.00 on 11970kc, 21.00–21.45 on 9740/11970kc, 21.45–24.00 on 9740kc.
To Africa: 12.00–14.00 (Sat/Sun only) on 17710kc, 15.00(Sat/Sun 12.00)–20.00 on 17845kc, 20.15–21.45 on 11880kc.
To Latin America/Caribbean: 12.00–14.00 on 15290kc, 14.05–15.00 on 15440kc, 15.00–21.30 on 15440/17730kc, 21.30–21.45 on 17730kc, 21.45–22.00 on 11725kc, 22.00–24.00 on 11725/15310kc.
Only R. New York Worldwide offers a continuous, 12 h English Sce. to Europe, the Caribbean and Latin America, daily, with news reports every half h, full details on the world "News By Continent" every other h. As the "Modern Sound on Shortwave", R. New York Worldwide offers the latest popular music, news, as well. News bulletin are presented at once.
N: ABC R. Network Late N: 5 min's before the h. **Special N: Chroniscope:** Mon–Fri 12.55, 14.55, 16.55, 18.55, 20.55, 22.55. **Stock Market N:** 15.15, 17.15, 19.15, 21.00 – **Music:** Mon–Fri 12.00–12.55, 13.30–14.55, 16.00–16.55, 18.00–18.55, 20.00–20.55, 22.00–22.55; Sat 12.00–17.00, 18.00–19.00; Sun 12.00–12.55, 13.30–15.30, 16.00–17.00, 20.30–21.30 – **DXing Worldwide:** Fri 23.30, Sat 19.00.
SPANISH SERVICE: 11.00–12.15, 13.00–14.45, 22.00–04.00, 11.00–11 30 on 6030/15385kc, 11.30–11.45 on 6030/11960/15385kc, 11.45–12.45 on 11790/15385kc, 13.00–14.45 on 11800/15385kc, 22.00–24.00 on 11855/15310kc, 00.00–00.15 on 9550/11855kc, 00.15–04.00 on 6015/9550/9615/11855kc. **N:** 11.00, 12.00, 13.00, 14.00, 22.05, 22.55, 23.30, 00.30, 03.30.
"Prisma Continental" (Hemispheric Neewsreel of the Air) with direct reports from correspondents in Latin America: Mon–Fri 23.30 – **"Clave"** (Variety) Comments, music, entertainment, reports, news, Correspondents: Mon–Fri 11.30, 13.30, 23.30, 00.15 – **"Radar"** (View of the Hemisphere) Music and reports from R. New York's own correspondents in Latin America: Mon–Fri 22.15 – **"Science XX Century"** (Ciencia Siglo XX): Tues 23.15, Sat 00.15 – **"Arts during the Week"** (Semana Artistica): Wed 03.05, Sat 23.35 – **"The Furrow of the Air"** (El Surco del Aire): Sat 00.30 – **"Mormon Church"** (from Salt Lake City, Utah): Mon–Fri 00.45, 03.45 – **"The Tabernacle Choir"** ("El Coro del Tabernaculo"): Special prgr. featuring the famous Mormon Choir: Sat 23.05, Sun 03.30 – **The Lutheran Hour** ("La Hora Luterana"): Sun 03.00 – **"DX-ing Worldwide"** (Club de Radioficionados): Thurs 13.45 – **"Pearls of Great Price"** ("Perlas de Gran Precio"): Sun 23.01, 00.30, 03.55.
CREOLE SERVICE: W 11.00–11.30 on 9685/11960kc.
ANN: E: "This is R. New York Worldwide, WRUL, New York, where you can hear...". Sp: "Esta es R. Nueva York, WRUL, transmitiendo programas en español desde sus estudios centrales frente al corazon de Manhattan" – **V.** by QSL-card. Recorded reports (single track tape only) accepted from outside the USA – **PUB:** Illustrated Prgr. Guide offered free. Write to R. New York Worldwide, New York City 19, USA. Advance prgr. and freq. information available to members of the R. New York Worldwide Shortwave Listeners Club. Yearly dues: $ 1.00, or equivalent in other currencies. Monthly bulletin and Club services available to all members. For further info. write to the SWL Club, R. New York Worldwide, New York City 19, USA.

COMMERCIAL STATIONS

NATIONAL ASSOCIATION OF BROADCASTERS

ADDR: 1771 N. Street N.W. Washington, D.C. 20036 – **Te:** Decatur 2-9300.
Purpose: The purpose of the Association is to foster and promote the development of the arts of aural and visual broadc. in all its forms; to protect its members in every lawful and proper manner from injustices; to do all things necessary and proper to encourage customs and practices which will strengthen and maintain the broadc. industry to the end that it may best serve the public.
L.P: Chmn: J. F. Dille, Jr. Pres: V. T. Wasilewski. Sec-Treasurer: E. E. Revercomb.
Members as of October 1, 1965: AM Radio 2099, FM Radio 894, TV Stations 454, Radio Networks 4, TV Networks 3, Associate Members 191.
M.W. Stations operating with a power of 10kW and above.
The time each station is authorized to operate is indicated in the list. Each station is required to operate at least two-thirds of the hours it is authorized to operate between 6:00 AM and 6:00 PM, and two-thirds of hours it is authorized to operate between 6:00 PM and midnight. If authorized to operate unlimited time, it may operate for the entire 24 h.
Abbreviations: Ala. Alabama, Alsk. Alaska, Ariz. Arizona, Ark. Arkansas, Calif. California, Colo. Colorado, Conn. Connecticut, D.C. District of Colombia, Fla. Florida, Ga. Georgia, Haw. Hawaii, Ill. Illinois, Ind. Indiana, Kans. Kansas, Ky. Kentucky, La. Louisiana, Mass. Massachusetts, Md. Maryland, Mich. Michigan, Minn. Minnesota, Miss. Mississippi, Mo. Missouri, N.C. North Carolina, Nebr. Nebraska, N.Mex. New Mexico, N.Y. New York, Okla. Oklahoma, Oreg. Oregon, Pa. Pennsylvania, R.I. Rhode Island, S.C. South Carolina, S.Dak. South Dakota, Tenn. Tennessee, Tex. Texas, Va. Virginia, Wash. Washington, W.Va. West Virginia, Wis. Wisconsin.

Become a co-operator with the WRTH
From time to time you may hear a new station which has not yet been mentioned in the WRTH. If so, please help us to spread the knowledge of your findings to other DX-ers in the world by sending your findings to us.
Make an extra profit by distributing our folders. Please write for further details.
World Radio TV Handbook Co. Ltd.
Sundvej 6, Hellerup, Denmark.

Call	kW	
540		
WGTO	50	Cypress Gardens, Fla.
640		
KFI	50	Los Angeles, Calif.
650		
KORL	10	Honolulu, Haw.
WSM	50	Nashville, Tenn.
660		
KFAR	10	Fairbanks, Alsk.
WNBC	50	New York
WESC	10	Greenville, S.C.
670		
WMAQ	50	Chicago, Ill.
680		
KNBR	50	San Francisco, Calif.
WCBM	10	Baltimore, Md.
WNAC	50	Boston, Mass.
WPTF	50	Raleigh, N.C.
WMPS	10	Memphis, Tenn.
KBAT	50	San Antonio, Tex.
WCAW	10	Charleston, W.Va.
690		
WVOK	50	Birmingham, Ala.
WAPE	50	Jacksonville, Fla.
KULA	10	Honolulu, Haw.
KGGF	10	Coffeyville, Kans.
KHEY	10	El Paso, Tex.
WCYB	10	Bristol, Va.
700		
WLW	50	Cincinnati, Ohio
710		
KMPC	50	Los Angeles, Calif.
WGBS	50	Miami, Fla.
KEEL	50	Shreveport, La.
WHB	10	Kansas City, Mo.
WOR	50	New York
KGNC	10	Amarillo, Tex.
KIRO	50	Seattle, Wash.
720		
WGN	50	Chicago, Ill.
730		
KFQD	10	Anchorage, Alsk.
740		
WBAM	50	Montgomery, Ala.
KBIG	10	Los Avalon, Calif.
KCBS	50	S. Francisco, Calif.
WPAQ	10	Mt. Airy, N.C.
KRMG	50	Tulsa, Okla.
KTRH	50	Houston, Tex.
750		
WSB	50	Atlanta, Ga.
KMMJ	10	Grand Island, Nebr.
KXL	50	Portland, Oreg.
760		
KGU	10	Honolulu, Haw.
WJR	50	Detroit, Mich.
770		
KOB	50	Albuquerque, N.Mex.
WABC	50	New York
780		
WBBM	50	Chicago, Ill.
810		
KGO	50	S. Francisco, Calif.
KCMO	50	Kansas City, Mo.
WGY	50	Schenectady, N.Y.
820		
WFAA	50	Dallas, Tex.
WBAP	50	Fort Worth, Tex.
830		
WCCO	50	Minneapolis – St. Paul, Minn.
840		
WHAS	50	Louisville, Ky.
850		
WYDE	10	Birmingham, Ala.
KOA	50	Denver, Colo.
WHDH	50	Boston, Mass.
WKIX	10	Raleigh, N.C.
WJW	10	Cleveland, Ohio
WJAC	10	Johnstown, Pa.
860		
KTRB	10	Modesto, Calif.
KOAM	10	Pittsburg, Kans.
WOAY	10	Oak Hill, W.Va.
870		
WWL	50	New Orleans, La.
880		
WCBS	50	New York
890		
WLS	50	Chicago, Ill.
900		
KFRB	10	Fairbanks, Alsk.
940		
KFRE	50	Fresno, Calif.
WINZ	50	Miami, Fla.
WMAZ	50	Macon, Ga.
KAHU	10	Waipahu, Haw.
KIOA	10	Des Moines, Iowa
WYLD	10	New Orleans, La.
WFNC	10	Fayetteville, N.C.
990		
KTKT	10	Tucson, Ariz.
WHOO	10	Orlando, Fla.
WIBG	50	Philadelphia, Pa.
WLKW	50	Providence, R.I.
WNOX	10	Knoxville, Tenn.
KNIN	10	Wichita Falls, Tex.
1000		
WCFL	50	Chicago, Ill.
KOMO	50	Seattle, Wash.
1010		
KLRA	10	Little Rock, Ark.
KSAY	10	S. Francisco, Calif.
WINQ	50	Tampa, Fla.
WGUN	50	Decatur, Ga.
WMOX	10	Meridian, Miss.
KXEN	50	St. Louis, Mo.
KRVN	25	Lexington, Nebr.
WINS	50	New York
WFGW	10	Black Mountain, N.C.
KAWA	10	Waco, Tex.
1020		
KGBS	50	Los Angeles, Calif.
KDKA	50	Pittsburgh, Pa.
1030		
WBZ	50	Boston, Mass.
KCTA	50	Corpus Christi, Tex.
1040		
WHO	50	Des Moines, Iowa
1050		
WHN	50	New York
1060		
KPAY	10	Chico, Calif.
WNOE	50	New Orleans, La.
KYW	50	Philadelphia, Pa.
1070		
WAPI	50	Birmingham, Ala.
KNX	50	Los Angeles, Calif.
WIBC	50	Indianapolis, Ind.
KFDI	10	Wichita, Kans.
WDIA	50	Memphis, Tenn.
WKOW	10	Madison, Wis.
1080		
KSCO	10	Santa Cruz, Calif.
WTIC	50	Hartford, Conn.
KWJJ	10	Portland, Oreg.
KRLD	50	Dallas, Tex.
WBIE	10	Marietta, Ga.
1090		
KAAY	50	Little Rock, Ark.
WBAL	50	Baltimore, Md.
KING	50	Seattle, Wash.
1100		
KFAX	50	S. Francisco, Calif.
WHLI	10	Hempstead, N.Y.
WKYC	50	Cleveland, Ohio
1110		
KRLA	50	Pasadena, Calif.
WALT	10	Tampa, Fla.
KFAB	50	Omaha, Nebr.
WBT	50	Charlotte, N.C.
1120		
KMOX	50	St. Louis, Mo.
1130		
KWKH	50	Shreveport, La.
WCAR	50	Detroit, Mich.
WDGY	50	Minneapolis, Minn.
WNEW	50	New York
WISN	50	Milwaukee, Wis.
1140		
KRAK	50	Sacramento, Calif.
WMIE	10	Miami, Fla.
KGEM	10	Boise, Idaho
KSOO	10	Sioux Falls, S.Dak.
WRVA	50	Richmond, Va.
1160		
WJJD	50	Chicago, Ill.
KSL	50	Salt Lake City, Utah
1170		
WCOV	10	Montgomery, Ala.
KCBQ	50	San Diego, Calif.
KVOO	50	Tulsa, Okla.
WWVA	50	Wheeling, W.Va.
KLOK	10	San José, Calif.
1180		
WHAM	50	Rochester, N.Y.
1190		
WOWO	50	Ft. Wayne, Ind.
WANN	10	Annapolis, Md.
KEX	50	Portland, Oreg.
KLIF	50	Dallas, Tex.
1200		
WOAI	50	San Antonio, Tex.
1210		
WKNX	10	Saginaw, Mich.
WCAU	50	Philadelphia, Pa.
1220		
WGAR	50	Cleveland, Ohio
1500		
WTOP	50	Washington, D.C.
WJBK	10	Detroit, Mich.
KSTP	50	Minneapolis – St. Paul, Minn.
KPIR	10	Eugene, Oreg.
1510		
KALF	10	Mesa, Ariz.
WNLC	10	New London, Com.
WLAC	50	Nashville, Tenn.
KGA	50	Spokane, Wash.
WAUK	10	Waukesha, Wis.
1520		
KACY	10	Port Hueneme, Calif.
WKBW	50	Buffalo, N.Y.
WFYI	10	Mineola, N.Y.
KOMA	50	Oklahoma City, Okla.
KYMN	10	Oregon City, Oreg.
KXKW	10	Lafayette, La.
1530		
KFBK	50	Sacramento, Calif.
WCKY	50	Cincinnati, Ohio
KGBT	50	Harlingen, Tex.
1540		
KPOL	50	Los Angeles, Calif.
KXEL	50	Waterloo, Iowa
WPTR	50	Albany, N.Y.
WJMJ	50	Philadelphia, Pa.
KCUL	50	Fort Worth, Tex.
1550		
KFIF	50	Tucson, Ariz.
KKHI	10	S. Francisco, Calif.
KDAB	10	Arvada, Colo.
WYOU	10	Tampa, Fla.
WSMA	10	Smyrna, Ga.
KOKA	10	Shreveport, La.
WBSC	10	Bennettsville, S.C.
1560		
KPMC	10	Bakersfield, Calif.
WQXR	50	New York
1580		
KYND	50	Tempe, Ariz.
KDAY	50	Santa Monica, Calif.
WWIL	10	Ft. Lauderdale, Fla.
WAXU	10	Lexington, Ky.
WPGC	10	Morningside, Md.
WPAC	10	Patchogue, N.Y.

RADIO NETWORKS

ABC RADIO NETWORK (A division of American Broadcasting Companies, Inc.)
ADDR: 1330 Avenue of the Americas, New York, N.Y. 10019 – **L.P:** Pres: Robert R. Pauley. Natl. Dir. Programs: John Thayer. Vice Pres. Natl. Dir. Sales: Theodore Douglas. For executives of parent company, see television listing.
Owned and operated stations: WABC, New York; KABC, Los Angeles; KGO, San Francisco; WXYZ, Detroit; KQV, Pittsburgh; WLS, Chicago.

CBS RADIO NETWORK (A division of Columbia Broadcasting System, Inc.)
ADDR: 51 West 52nd Street, New York, N.Y. 10019 – **L.P:** Pres: Arthur Hull Hayes. Vice Pres: Programming: George M. Perkins. Vice Pres. Sales: George J. Arkedis. For executives of parent company, see television listing.
Owned and operated stations: WCBS, New York; WBBM, Chicago; KCBS, San Francisco; KMOX, St. Louis; KNX, Los Angeles; WEEI, Boston; WCAU, Philadelphia.

NBC RADIO NETWORK (A division of National Broadcasting Company)
ADDR: 30 Rockefeller Plaza, New York, N.Y. 10020 – **L.P:** Pres: Stephen B. Labunski. Dir. Sales: Robert G. Baal. Vice Pres. Programs: Robert Wogan. For executives of parent company, see television listing.
Owned and operated stations: WNBC, New York; WRC, Washington; WJAS, Pittsburgh; WMAQ, Chicago; WKYC, Cleveland; KNBR, San Francisco.

GEORGE P. ADAIR ENGINEERING COMPANY
CONSULTING ENGINEERS
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DOMESTIC AND INTERNATIONAL
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SERVICES
(202) 333-1116
Cable: GAENGCO
901-20th STREET N.W.
WASHINGTON 6, D.C.

MUTUAL BROADCASTING SYSTEM, INC. (A division of 3M Co.) – **ADDR:** 135 West 50th Street, New York, NY – **L.P:** Pres: Robert F. Hurleigh. Vice Pres. news and Wash. opns: Stephen J. McCormick. Vice Pres, stations: Charles W. Godwin. Vice Pres. programs & opns: Joseph F. Keating.

EDUCATIONAL

Department of Health, Education, and Welfare, Office of Education, Washington D.C.20202; Office of the Under Secretary: I. A. Nestingen.

The Educational Television Facilities Programme designed to encourage establishment of new and improved broadcast facilities through financial grants based on matching funds.

Office of Education, Media Research and Dissemination Branch, Ag. Dir: Th. D. Clemens. Educ. Media Specialist: Mrs. G. Broderick. Provides a variety of services by professional staff specialists to schools and college officials, st. operators, and others, as requested. Under Title VII of the National Defense Education Act, finances research and experimentation in the educ. uses of all media; disseminates information on the subject through conferences, seminars, workshops, and publication of pertinent bulletins.

Organisations:

National Association of Educational Broadcasters (NAEB).

Headquarters: 1346 Connecticut Ave, N.W. Washington D.C. 20036. **Te:** 667-6000 – **Publications and Network Office:** 119 Gregory Hall, Urbana, Illinois 61803. **Te:** 333-0580.

L.P: Pres: W. G. Harley. Vice-Pres: H. E. Hill. Ag. Pres. (TV): C. Scott Fletcher. Vice Pres. (TV): G. L. Appy.

Stations: 157 educational institutions and organizations owning and operating a total of 213 educational radio and TV stations. **Fi:** By membership fees. Also some support from outside sources for special research projects. The national independent professional association, which since 1925 has represented the interests and needs of educ. television and radio broadcasters, represents appr. 75% of the educ. st's and production centers of the United States (appr. 90% exc. those identified as religious st.).

Activities and Functions: The NAEB is the Association of American institutions operating educational, cultural and public Sce's radio and TV st's and production centers. Publish a monthly Newsletter, a periodic Washington Report, and a bi-monthly Journal. The NAEB also operates a radio network which duplicates via tape and distributes to members st's five hours of programming per week. At present there are some 135 st's in this network. Exchanges of prgr's with other nations are welcomed. It also actively cooperates with various intern. organizations (European Broadcasting Union, UNESCO etc.), and the national systems of various other countries. According to FCC regulations, non-comm. educational FM st's have no restrictions on transmission time.

PRIVATE STATIONS

GOVERNMENT AGENCY:

THE FEDERAL COMMUNICATIONS COMMISSION (FCC) the licensing agency for broadc. st's.

Addr: P.O. Dept. Bldg, Washington 20554, D.C – **L.P** (key officials): Chmn: E. W. Henry. Executive Dir: C. B. Plummer. Secr: B. F. Waple, Chief, Broadcast Bureau: J. B. Sheridan, Chief, Reports & Information: G. O. Gillingham.

The FCC is an independent Federal agency, composed of seven Commissioners appointed by the Pres. by and with the advice and consent of the Senate. One of its major activities is the general regulation of broadc. – now visual as well as aural. This regulation may be divided into three phases: 1) The allocation of spectrum space to the different types of broadcast services, 2) Considerations to build and operate individual stations, 3) Regulating their operation.

Call letters. – International agreement provides for the national identification of the radio st. by the first letter or first two letters of its assigned call signal, and for this purpose apportions the alphabet among different nations. USA st's use the initial letters K, N, and W, exclusively, and part of the A series. Broadcast st's are assigned call letters beginning with K or W. Generally speaking, those beginning with K are assigned to st's west of the Mississippi River and in the territories and possessions, while W is assigned to broadcast st's east of the Mississippi.

Number of broadc. st's in the USA as of August 1, 1965.

	Authorized	Operating
AM	4.097	4.030
FM commercial	1.576	1.352
FM educational	272	262
TV commercial	694	590
TV educational	127	93
TV Translators	2.025	1.767

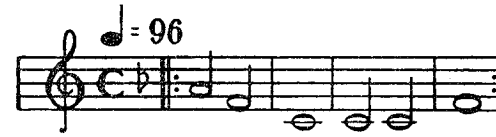
EVEN A MODEST ADVERTISING BUDGET will allow you to reach new and potential customers all over the world. For complete details and rates contact:
World Radio TV Handbook Co. Ltd.
Sundvej 6, Hellerup, Denmark.

UNITED NATIONS

UNITED NATIONS RADIO

ADDR: United Nations, New York. **Cable:** Unations, New York. **Te:** Plaza 4-1234. Telex 222422 – **L.P:** Officer-in-Charge, Office of Public Information: J. Rolz-Bennett. R & Visual Services Div: Dir: J. d'Arcy. Deputy Dir: D. Ritchie. Chief of Operations & TV: M. Hayward. Chief of Radio: P. Jankowski. Mgr. Technical Operations: J. C. Nichols.

INT-SIG: Music Chime.



ANN: "This is the "United Nations". This introductory phrase is used in all official UN prgrs. in all of the languages concerned Message to listeners: The R. & Visual services Division is anxious to establish contact with as many listeners as possible and will gladly acknowledge all communications. Upon request, new correspondents are sent a prgr. sched. and some general information about the United Nations and the Specialized Agencies. Correspondence and requests for copies of the schedule of UN broadcasts should be addressed to the Director of the nearest UN Information Centre. These are located in Accra, Addis Ababa, Algiers, Asuncion, Athens, Baghdad, Bangkok, Beirut, Belgrade, Bogota, Buenos Aires, Bujumbura, Cairo, Colombo, Copenhagen, Dakar, Dar Es Salaam, Djakarta, Geneva, Kabul, Karachi, Kathmandu, Khartoum, La Paz, Leopoldville, Lima, Lome, London, Manila, Mexico City, Monrovia, Moscow, New Delhi, Paris, Port Moresby, Port-of-Spain, Prague, Rabat, Rangoon, Rio de Janeiro, Rome, San Salvador, Santiago, Sydney, Tananarive, Teheran, Tokyo, Tunis, Washington.

Request for copies of the sched. of UN broadc, which can be heard in the United States should be addressed to: Radio and Visual Services Division, United Nations, New York.

BROADCASTS FROM THE UNITED NATIONS

G=Greenville; T=Tangier; B=Bethany; BB=Boundbrook; D=Delano; DI=Dixon; M=Monrovia; P=Philippines; H=Honolulu. I=We & Ce. Europe; II=So. Europe; III=We & Ce. Africa; IV=Ea. Latin America; V=Brazil; VI=We. Latin America; VIII=Ce & So. Africa; VIII=M. East/No. Africa; IX=We. Africa; X=Ea. Africa; XI=Malaysia/Singapore; XII=Australia/N.Z; XIII=So.Ea. Asia. *=Mon-Fri. **=Tues-Sat.

SCHEDULE

Times	Area	kc/tr	L
*18.00-18.30	I	15250/21575(G), 17815(T)	a
*18.45-19.00	II	9615(T), 15330(B)	b
*19.15-19.30	III	15185/17765(B)	c
**00.30-01.00	IV	9640/11940/15330(G)	Spanish
**01.00-01.15	V	11830/15250/17800(G)	Portuguese
**01.45-02.00	VI	9735(DI)	Spanish
**02.00-02.15	XI	15150/17705(P)[1]	English
**05.30-06.00	VII	6125/9530(G)	d
**06.30-07.00	II/VIII	7270/15315(T)[2]	e
**06.45-07.00	IX	6125/9530(G)	f
**07.00-07.15	X	11840/15315(M)[3]	g
**07.30-07.45	XII	9665/11830(D)[4]	English
**10.00-10.30	XIII	15155/17730(P)[5]	h
**10.30-10.45	XIII	15155(P)[6]	Chinese
**10.45-11.00	XIII	15155(P)[7]	English

[1]) broadc. to P 01.30-01.45 on 15365kc (D) – [2]) broadc. to T 02.30-03.00 on 6055/9635kc (G) – [3]) broadc. to M on 6125/9530kc (G) – [4]) repeated 08.45-09.00 on 11775kc (H) – [5]) broadc. to P 06.30-07.00 on 9665/11830kc (D) – [6]) broadc. to P 07.00-07.15 on 9665/11830kc (D) – [7]) broadc. to P 07.15-07.30 on 9665/11830kc (D). a) N: Arabic, English (18.05), French (18.10), Spanish (18.15) – b) N: Italian, Greek (18.50), Turkish (18.55) – c) N: French, English (19.22) – d) N: French, English (05.45) – e) N: English, Hebrew (06.35), French (06.40), Italian (06.45), Serbo-Croat (06.50) – f) N: French, English (06.52) – g) N: English, Swahili (07.10) – h) N: Sinhalese, English (10.10), Thai (10.20).

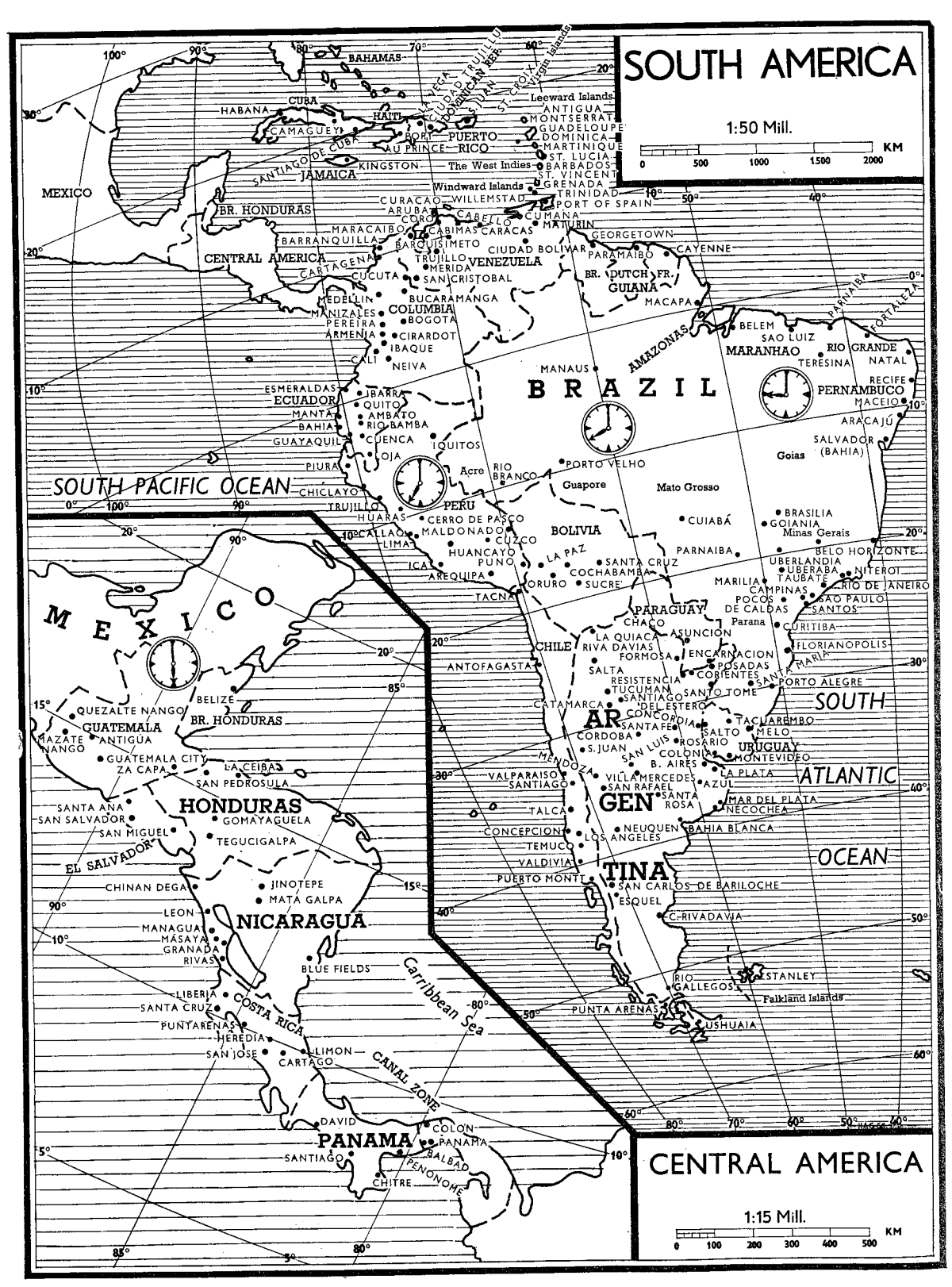
BROADCASTS OF MEETINGS OF THE GENERAL ASSEMBLY AND THE SECURITY COUNCIL WHEN IN SESSION

AM Meeting:

In English/French 8): 14.30-17.00 on 15155kc(G), 15330/21610kc(B). **In Spanish** 9): 14.30-17.00 on 17750kc (BB).

PM Meeting:

In English/French 8): 19.00-22.30 on 11815kc(G), 19.00-22.45 on 15330kc(B), 22.45-02.30 on 9760kc(G), 23.00-02.00 on 11965kc(G), 02.30-closing on 9755kc(G). In **Spanish** 9): 19.00-22.45 on 11890kc (BB), 19.15-23.00 on 17780kc (BB), 22.45-closing on 11770kc(G). 8) to Europe/No, We & Ce. Africa; 9) to Latin America.


SOUTH AMERICA
1:50 Mill.
KM
0 500 1000 1500 2000
CENTRAL AMERICA
1:15 Mill.
KM
0 100 200 300 400 500
MEXICO
CENTRAL AMERICA
SOUTH PACIFIC OCEAN
SOUTH ATLANTIC OCEAN
Carribbean Sea
BAHAMAS
CUBA
HABANA
CAMAGUEY
SANTIAGO DE CUBA
HAITI
PORT AU PRINCE
KINGSTON
JAMAICA
PUERTO RICO
LA VEGA
CIUDAD TRUJILLO
DOMINICAN REP.
S. JUAN
ST. CROIX
Virgin Islands
Leeward Islands
ANTIGUA
MONTSERRAT
GUADELOUPE
DOMINICA
MARTINIQUE
ST. LUCIA
BARBADOS
ST. VINCENT
GRENADA
TRINIDAD
PORT OF SPAIN
The West Indies
Windward Islands
WILLEMSTAD
CURACAO
ARUBA
CORO
CABELLO
CUMANA
MATURIN
CABIMAS
CARACAS
MARACAIBO
BARRANQUILLA
BARQUISIMETO
CIUDAD BOLIVAR
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CAYENNE
PARAMAIBO
VENEZUELA
TRUJILLO
MERIDA
SAN CRISTOBAL
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CUCUTA
BUCARAMANGA
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MEDELLIN
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TACNA
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COCHABAMBA
SANTA CRUZ
BOLIVIA
IQUITOS
Acre
RIO BRANCO
PORTO VELHO
Guapore
Mato Grosso
MANAUS
AMAZONAS
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GOIANIA
Minas Gerais
PARNAIBA
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UBERLANDIA
UBERABA
TAUBATE
NITEROI
RIO DE JANEIRO
MARILIA
CAMPINAS
POCOS DE CALDAS
SAO PAULO
SANTOS
PARAGUAY
CHACO
ASUNCION
Parana
CURITIBA
LA QUIACA
RIVA DAVIAS
FORMOSA
ENCARNACION
POSADAS
FLORIANOPOLIS
CHILE
ANTOFAGASTA
SALTA
CORIENTES
SANTA MARIA
RESISTENCIA
TUCUMAN
SANTO TOME
PORTO ALEGRE
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CORDOBA
ROSARIO
S. JUAN
SAN LUIS
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MONTEVIDEO
B. AIRES
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SANTIAGO
VILLA MERCEDES
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AZUL
LA PLATA
SANTA ROSA
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NECOCHEA
TALCA
CONCEPCION
LOS ANGELES
NEUQUEN
BAHIA BLANCA
TEMUCO
VALDIVIA
PUERTO MONTT
SAN CARLOS DE BARILOCHE
ESQUEL
C. RIVADAVIA
RIO GALLEGOS
STANLEY
Falkland Islands
PUNTA ARENAS
USHUAIA
ARGENTINA
SOUTH ATLANTIC OCEAN
MEXICO
BELIZE
BR. HONDURAS
QUEZALTE NANGO
GUATEMALA
MAZATE NANGO
ANTIGUA
GUATEMALA CITY
ZA CAPA
LA CEIBA
SAN PEDROSULA
HONDURAS
SANTA ANA
SAN SALVADOR
SAN MIGUEL
GOMAYAGUELA
TEGUCIGALPA
EL SALVADOR
CHINAN DEGA
JINOTEPE
MATA GALPA
LEON
MANAGUA
MASAYA
GRANADA
RIVAS
NICARAGUA
BLUE FIELDS
LIBERIA
SANTA CRUZ
COSTA RICA
PUNTARENAS
HEREDIA
SAN JOSE
LIMON
CARTAGO
CANAL ZONE
DAVID
COLON
PANAMA
SANTIAGO
BALBAD
PENONOME
CHITRE

Prgr's from the United Nations are broadcast by st's in more than 100 countries and territories. The times of these broadcasts may be ascertained from local newspaper or from the stations concerned – R. st's in the US and Canada receive the prgr's direct by line from the Nations Headquarters or by recording – The R. and Visual Services Division prepares and distributes recorded prgr's in Amharic, Arabic, Duri, Dutch, English, French, German, Greek, Hebrew, Hindi, Indonesian, Italian, Persian, Polish, Portuguese, Pushtu, Russian, Serbo-Croat, Sinhalese, Spanish, Swahili, Tagalog, Thai, Turkish and Urdu.
Letters from Listeners are welcome.
New listeners are sent some general information about the United Nations upon request – Correspondence and request for particulars of the United Nations broadcasts from Headquarters should be addressed to: Radio and Visual Services Division, United Nations, New York.

CENTRAL AMERICA

BAHAMAS (British)

L.T: GMT–5 h (Su: GMT–4 h) – Pr.L: English.

BAHAMAS BROADCASTING AND TELEVISION COMMISSION (Gov, Comm.)
FI: By adv – ADDR: P.O. Box 1347, Nassau. Te: 2-4623. Cable: "Broadcasts" – L.P: Mgr: R. Bethel. Dir. Tec: L. Cartwright.
STATIONS: (System: Gates (ZNS1)):
ZNS1 1540kc 195m 10kW – ZNS2 1240kc 242m 0.25kW.
HOME SCE. on 1540kc: 11.00(Sun 12.00)–05.00. N: 13.15, 18.15, 00.15 – On 1240kc: 22.30–04.00. N: 01.00.
ANN: "This is st. ZNS, Nassau". "This is ZNS2, The Voice of New Providence" – V. by letter. Recordings accepted.

BARBADOS (British)

L.T: GMT–4 h – Pr.L: English.

CARIBBEAN BROADCASTING CORPO. (Gov, Comm.)
FI: By adv – AD: 12 min's per h.
ADDR: P.O. Box 785, Barbados. Te: 2163. Cable: Cabroco – L.P: St. Mgr: D. Vance. Dir. Tec: G. Shaw. Prgr. Mgr: B. Haines.
STATION (System: Marconi): 785kc 10kW.
HOME SCE. in English: 09.58–03.15(Sat 04.05) – N: 10.50, 11.00*, 12.00, 13.00*, 14.00, 15.00, 16.00*, 17.00*, 18.00, 19.00, 20.00*, 21.00*, 22.00, 23.00*, 00.00, 01.00, 03.00* – *=BBC.
ANN: "This is R. Barbados – 785 on your dial" – V. by letter. Rp. Recorded or written re. in E.

BARBADOS REDIFFUSION SERVICE LTD. (Public Co.)
FI: By adv – ADDR: River Rd, Bridgetown. Te: 0811. Cable: Rediffusion – L.P: Gen. Mgr: Col. R. W. R. Oliver. Eng: G. Duesbury. Dir. Prgr: F. C. Pardo – D.PRGR: 09.58–03.03 – N (BBC): 11.00, 16.00, 21.00, 23.00, 03.00.

COSTA RICA

L.T: GMT–6 h – Pr.L: Spanish.

DEPARTAMENTO CONTROL NACIONAL DE RADIO
ADDR: Apt. 3483, San José. Cable: Ranac. Te: 7339 – L.P: Dir: L. H. Andrés.

EMPRESARIOS RADIODIFUSORES ASOCIADOS (ERA)
ADDR: Apt. Postal 111, San José – L.P: Pres: R. Barahona Gomez.
STATIONS: All st's comm. exc. 3), 21) (Rlg), 15), 37) (Cultural).

Short Waves: Call: TI---. 1) East & West. 2) North & South.

Call	kc	m	kW	Name	H of tr.
1) Q	5954	50.39	1	R. Casino, Puerto Limon	11.55–06.00
2) HBG	6006	49.95	1	R. Reloj, San José	12.00–06.00
3) FC	6037	49.69	2	d¹ Faro del Caribe, San José	
4) JCD	6205	48.35	1	R. Atenas, San José	
5) RHB2	6235	48.10	1	R. Popular, San José	12.00–05.00
6) GPH	6215	48.27	1	R. Monumental, San José	11.00–06.00
7) RICA	9615	31.20	3	La Voz de la Victor, S. José	11.00–05.00
3) FC	9645	31.10	2d²	Faro del Caribe, San José	12.00–19.00, 00.00–04.00

Medium Waves: Call: TI---. °=Short Wave.

Call	kc	kW	Call	kc	kW	Call	kc	kW
8) JJH	550	1.5	6) BAS	°650	3.5	11) LX	725	1
9) JC	575	1	10) U	675	1	12) RA	750	1
7) RICA	°625	10	2) HB	°700	2	13) W	775	4.5
5) GPH2	800	3.5	3) FC	°1075	10	30) WW	1350	1
14) OS	825	1.5	23) EM	1100	1	31) MAR	1375	1
15) UCR	850	1	4) SRHB	°1125	1	32) LG	1400	2
16) SS	875	1.3	24) SM	1150	1	33) CJ	1425	1
17) CS	900	6	11) CA	1175	2	34) MMC	1450	1
18) R	925	3	1) Q	°1200	1	35) HCJ	1475	1
19) LC	950	1	25) BSD	1225	1	36) RU	1500	1
4) RS	°975	4	26) ALC	1250	1	37) EEAW	1525	1
20) CEC	1000	1	27) RE	1275	1	38) MET	1550	1
21) AC	1025	2	28) SBJ	1300	2	39) JJC	1575	1
22) GPH	1050	1	29) NN	1325	1	40) ACA	1600	1

Short Waves:
1) Apt. 287, Puerto Limon – L.P: Dir: L. Villalobos. V. by letter.
2) Apt. 341, San José – L.P: R. Barahona G. V. by letter.
3) Apt. 2710, San José. Te: 1250 – L.P: Mgr: F. Cabezas B. Dir. Tec: W. Griffin. Dir. Prgr: W.Wortmann – D.Prgr: On 1075/9645kc: 12.00–19.00, 00,00–04.00, English Hour: 03.00–04.00, »Lumbrera a mi Camino« (Spanish Christian prgr's): 15.00–16.00 (The 6Mc outlet temporarily off the air). Ann: "This is TIFC, the Lighthouse of the Caribbean in San José, Costa Rica". Sp: "TIFC, Faro del Caribe en San José, Costa Rica" – V. by QSL-card – Pub: Prgr.sched. free on request.
4) Apt. 208, San José.
5) Apt. 341, San José. Te: 5607 – L.P: Dir: R. Barahona – D.Prgr: N. every h on the h – Ann: "Emisoras de R. Excelsior desde San José, Costa Rica, América Central" – V. by QSL-card or letter. Re. in Sp, E.
6) Apt. 800, San José (TIGPH-2: Nueva Alma Tica) – L.P: Dir: L. Pinto S. – V. by letter.
7) Apt. 1079, San José. Te: 3737. Cable: Voz Victor – L.P: Dir. Gen: S. March Palau – D. Prgr: N: every half h and 12.00, 17.00, 21.00, 03.00 – Ann: "Voz de la Victor, R. Internacional de Costa Rica" – V. by QSL-card. Recordings accepted – F.Pl: mw 50kW.

Medium Waves: D 12.00–05.00 exc. where indicated.

8) R. Progreso, Apt. 122, Alajuela. L.P: Dir: E. Martinez.
9) Radiopolis, Apt. 854, San José. L.P: J. Casto C.
10) R. Musical, Apt. 854, San José.
11) R. Columbia, Apt. 708, San José (TICA: Apt. 708, Puntarenas).
12) Radiolandia, Apt. 2525, San José. L.P: Dir: R. Aguilar V.
13) R. City, Apt. 835, San José. L.P: Dir: A. Múrolo C. V. by letter. Re. in E – 14) R. Titania, Apt. 512, San José.
15) R. Universitaria, San Pedro. L.P: Dir: C. Salazar H. D.Prgr: 14.00–04.00 (Classical music only). V. by letter.
16) La Voz del Tropico, Apt. 914, San José.
17) La Voz de America, Apt. 517, San José.
18) Cadena Musical, Apt. 854, San José. L.P: J. Castro C.
19) R. Hispana, Cartago – 20) R. Cima, San Ramón.
21) R. Fides, Apt. 1933, San José. L.P: Dir: G. Jimenez A. D.Prgr: 11.00–04.15. N: 17.00. Ann: "TIAC, R. Fides, Emisora Catolica de la Iglesia de Costa Rica".
22) R. Monumental, Puntarenas. (Apt. 800, San José).
23) Columbia Canal 4, Apt. 708, San José. L.P: C. A. McAdam.
24) Monumental Canal Dos, Apt. 800, San José. L.P: L. P. Saborio.
25) R. Victoria, Cartago – 26) R. Universal, Apt. 3202, San José.
27) R. Emmaus, Coronado. L.P: Dir. Gen: C. H. Rodriquez Q. D.Prgr: 11.50–03.15.
28) R. Libertad, Apt. 4075, San José – 29) R. Nandayure, Tilarán, Gte.
30) R. Centro, Puntarenas – 31) R. Tropical, Heredia – 32) R. Cariari, Limón – 33) R. Sinai, San Isidro del General.
34) R. Golfito, Puerto Golfito. V. by letter.
35) R. Regional, San Carlos. V. by letter. F.Pl: Sw.st. 49mb.
36) R. Union, Liberia Gte – 37) R. Turrialba, Turrialba.
38) Servicio Meterológico, Minist. Agricultura, San José.
39) La Voz de Guanacaste, Liberia.
40) La Voz de Costa Rica, San José. L.P: Dir: A. Cespedes A.

CUBA

L.T: GMT–5 h – Pr.L: Spanish.

MINISTERIO DE COMUNICACIONES
Direccion General de Telecomunicaciones.
ADDR: Plaza de la Revolúción "José Marti", La Habana.

INSTITUTO CUBANO DE RADIODIFUSION
Edif. Radiocentro, Ly 23, Vedado, Habana.

PARA TODOS LECTORES HABLANDO ESPAÑOL
Si quiere Vd., libre de gastos, un ejemplar de nuestro vocabulario inglés-español, que contiene palabras y frases del WRTH, sirvase escribir a **World Radio TV Handbook Co. Ltd.**
Sundvej 6, Hellerup, Denmark.

RADIO HABANA CUBA

ADDR: Apt. Postal 7026, Habana.

STATIONS: 10/100kW.

kc	m	kc	m	kc	m	kc	m	kc	m
5975	50.21	9525	31.50	11735	25.56	15135	19.84	15340	19.56
5990	50.08	9625	31.17	11760	25.51	15155	19.80	17855	16.80
6015	49.88	9655	31.07	11770	25.49	15210	19.72	17875	16.78
6060	49.50	9675	31.01	11840	25.42	15230	19.70	21460	13.98
6100	49.18	9765	30.72	11865	25.34	15270	19.65	21600	13.89
6135	48.90	11705	25.63	11970	25.06	15315	19.59	21630	13.87

FOREIGN SERVICE

I=No. Europe; II=No. America; III=So. America; IV=Mediterranean; V=Europe; VI=Caribbean.

Arabic	Area	kc	Quechua	Area	kc
07.30–08.30	IV	11705	01.00–01.30(Sun)	III	11970
09.30–10.30	IV	11705	**Portuguese**		
18.10–18.55	IV	11705	23.00–24.00	III	15340
20.30–21.10	IV	11705	**Spanish**		
Creole			06.30–07.00	IV	11705
11.00–12.00	VI	6060	08.30–09.00	IV	11705
02.00–03.00	VI	6060	10.30–10.45	IV	11705
English			11.00–22.00	III/IV	11760
20.10–21.40	I	11735	11.00–18.35	III/IV	6135
20.50–21.50	III	11760	11.00–12.30	III/IV	15340
03.00–04.30	II	6135	12.50–15.30	III/IV	17855
05.00–06.00	II	6135	15.40–18.30	III/IV	17855
French			19.00–20.30	IV	11705
17.00–18.10	IV	11705	22.00–23.00	III/IV	15340
19.00–20.10	V	11735	22.00–03.00	III/IV	6135
21.10–21.40	IV	11705	22.00–06.00	III/IV	9525
04.30–05.00	II	6135	00.00–00.50	III/IV	15340
07.00–07.30	IV	11705	00.00–02.00	III/IV	6060
09.00–09.30	IV	11705	01.00–06.00	III/IV	11970
Guarani			03.00–06.00	III/IV	6060
22.30–23.00	III	15340			

ANN: Sp: "Esta es R. Habana Cuba, transmitiendo desde Cuba, Território libre de América" – V. by QSL-card and letter.

Medium Waves: Call: CM––.

Call	kc	kW	Location	Call	kc	kW	Location
1) I	570	10	Sta. Clara	9) JY	860	1	C. de Avila
1) W	590	25/15	La Habana	10) BL	860	15/1	La Habana
1) –	600	1	Trinidad	11) AG	880	1	Consolacion
1) KV	600	2	Holguin				
2) HQ	630	50	Sta. Clara	11) JB	880	1	Camagüey
2) KU	630	2	Santiago	11) HD	880	1	Sta. Clara
2) Q	640	50	La Habana	2) JV	900	1	C. de Avila
3) HG	660	1	Sta. Clara	11) BF	910	10	La Habana
3) KP	670	1	Holguin	11) GX	910	1	Matanzas
3) AF	680	1/0.5	P. del Rio	11) –	920	1	Placetas
3) HN	680	1/0.5	Cienfuegos	1) KN	930	1	Santiago
3) DB	680	1/0.5	Santiago	1) JN	960	1	Camagüey
3) BC	690	50	La Habana	12) CK	980	5	La Habana
3) JT	700	1/0.5	C. de Avila	13) HT	990	1/0.25	S. Spiritus
1) –	720	30	Colón	9) FA	1000	1	Camagüey
2) KJ	730	10	Holguin	11) KM	1010	5	Holguin
2) AQ	740	1	P. del Rio	14) BQ	1060	5/1	La Habana
2) JL	740	10	Camagüey	15) DL	1120	1/0.25	Holguin
4) CD	760	10	La Habana	16) HA	1130	1	Sta. Clara
5) DC	770	1	Holguin	4) HK	1210	1	Cruces
1) HB	780	1	S. Spiritus	4) CI	1260	5	La Habana
6) CH	790	10	La Habana	4) JC	1270	1	Camagüey
4) KL	800	2	Santiago	4) HM	1280	1	Sta. Clara
3) JE	810	1	Camagüey	17) JQ	1300	1	Nuevitas
7) CA	830	10	La Habana	18) KT	1520	1/0.25	V. de las Tunas
8) HW	840	1/0.5	Sta. Clara				
5) KC	850	2	Santiago	4) JS	1600	1	C. de Avila

+40 sts. less 1kW not mentioned.

1) **R. Rebelde**, La Habana.
2) **Circuito CMQ**, Radiocentro L y 23, Vedado, La Habana. **D.Prgr:** 10.30–05.00. N: on the h. **Ann:** "CMQ, desde La Habana, Cuba, território libre de América".
3) **R. Progreso**, Av. Menocal 105, La Habana. **D.Prgr:** 10.30–05.00. **Ann:** "R. Progreso, Cadena Nacional, La Onda de la Alegria". **Special Prgr. in English:** 05.00–06.00(Mon only) for No. American Negroes. **Ann:** "This is R. Free Dixie, broadc. from Havana, Cuba, Free Territory of America".
4) **R. Reloj Nacional**, Ed. Odontológico 1211, Vedado, Habana. **D.Prgr:** 24 h; Continuous prgr. of N & Comm. under rhytm of clock ticks every second; Time checks every min.
5) **R. Cadena CMCK**, Aquilera 511, Santiago. **D.Prgr:** 10.30–24.00.
6) **R. Cadena Habana**, San José 104, La Habana.
7) **R. CMCA**, P. de Marti 107, La Habana. **D.Prgr. in English** 11.00–06.00 exc. for bilingual newscasts. **Ann:** "CMCA, the Friendly Voice of Cuba, broadc. on 830kc, from Havana, Cuba, Free Territory of America".
8) **R. CHMW**, Parque Vidal, Sta. Clara. **D.Prgr:** 10.30–05.00.
9) **R. Cadena Agramonte**, Ciego de Avila. **D.Prgr:** 10.30–05.30.
10) **R. CMBL**, 25 No. 1111-1113, Vedado, La Habana. **Ann:** "Transmite CMBL, del Instituto Cubano de Radiodifusion, presentando musica para todo el mundo" – 11) **R. Musical Nacional**, La Habana. **D.Prgr:** 12.00–05.00 (Continuous music).
12) **El Periodico del Aire**, Av. de la Independencia, La Habana.
13) **R. Sancti Spiritus**, L. Caballero 4N, Sancti Spiritus.
14) **R. Enciclopedia Popular**, La Habana – 15) **La Voz de la Libertad**, Frexes 74, Holguin – 16) **Onda Musical**, Santa Clara – 17) **R. Nuevitas**, Ca. Garcia, Nuevitas – 18) **La Voz de Tunas**, V. Garcia 314, Victoria de las Tunas.

DOMINICAN REPUBLIC

L.T: GMT–5 h (GMT–4 h during a short "winter" period) – Pr.L: Spanish.

DIRECCION GENERAL DE TELECOMUNICACIONES

ADDR: Santo Domingo. **Te:** 22244. **Cable:** Telecom – **L.P:** Dir. Gen: Raul A. Cabral Navarro.

STATIONS: In Santo Domingo approx. 11.00–04.00; other cities 11.00–03.00 (exc. where indicated). All comm.

Short Waves: Call: HI––. *=inactive. P=Puerto. Sto=Santo.

	Call	kc	m	kW	Name and h of tr.
1)	AU	*3205	93.60	0.5	Broadc. Tropical, P. Plata
2)	SD	*3215	93.30	7.5	R. Sto. Domingo Televisión
3)	DB	*3225	93.05	1	R. Libertad, Santiago
4)	AF	3245	92.45	0.5	R. Monte Cristi: 12.00–04.00
5)	RM	3265	91.87	1	R. Sol, Higuey: 12.00–03.00
6)	BA	*3305	90.77	1	Emis. Unidas, Sto. Domingo
7)	AA	*3315	90.50	0.5	R. HIAA, Santiago
2)	SD	3325	90.23	7.5	R. Sto. Domingo Televisión
8)	AS	3345	89.68	1	Onda Musical, Sto. Domingo
9)	BD	3355	89.42	0.25	La Voz de la Romana, Romana
10)	RL	*3365	89.15	0.5	R. Exitos, Santiago
11)	AD	3375	88.89	1	R. San Juan
12)	DA	3385	88.63	1	R. Hit Musical, Santiago: W 10.55–04.00, Sun 13.00–01.00
13)	AZ	3395	88.37	1	R. Santiago: irr.
8)	AS	4780	62.76	1	Onda Musical, Sto. Domingo: 11.00–05.00
14)	FF	4840	61.98	1	La Voz del Atlantico, P. Plata
15)	BC	*4860	61.73	0.25	La Voz del Progreso, San Francisco de Macoris
16)	JP	4880	61.48	1	R. Comercial, Sto. Domingo
3)	DB	*4890	61.35	0.25	R. Libertad, Santiago
18)	N	*4910	61.10	1	R. HIN, Sto. Domingo
19)	CV	*4930	60.85	0.6	La Voz del Biran, Barahona
20)	BE	*4940	60.73		R. Mil, Sto. Domingo
21)	CN	*4960	60.48	1	R. Antillas, Sto. Domingo
22)	–	4960	60.48		La Voz de la O.E.A, Sto. Domingo
23)	CK	*4980	60.25	0.25	Ondas del Yaque, Santiago
24)	BB	5030	59.64	1	La Voz del Papagayo, La Romana
25)	L	*5055	59.36	0.5	La Voz del Tropico, Sto. Domingo
2)	SD	*5970	50.25	7.5	R. Sto. Domingo Televisión
26)	HD	6025	49.79	0.1	La Voz de Oriente, San Pedro de Macoris: 11.30–06.30
13)	AZ	6060	49.50	0.5	R. Santiago: 11.00–03.00
2)	DB	6075	49.38	0.25	R. Libertad, Santiago
2)	SD	6090	49.26	7.5	R. Sto. Domingo Televisión: 10.55–05.02
27)	Z	6110	49.10	1	Broadc. Nacional, Sto. Domingo: 11.45–04.30
28)	CB	*6120	49.02	0.5	R. Dif. HICB, Santiago
29)	G	*6130	48.94	0.25	R. Dif. HIG, Sto. Domingo
1)	AU	6190	48.47	0.1	Broadc. Tropical, P. Plata: 11.00–03.00
2)	SD	9505	31.56	50	R. Sto. Domingo Televisión
29)	G	*9590	31.28	0.25	R. Dif. HIG, Sto. Domingo

Medium Waves: Call: HI--. °=Short Wave.

Call	kc	kW	Call	kc	kW	Call	kc	kW
7) AA	560	0.5/0.25	13) AZ	°820	1/0.1	10) RL	°1130	1/0.25
30) MS	570	1	31) BJ	830	5/1	8) AS	°1150	1
31) BJ	590	1/0.25	2) SD	°860	5	20) BE	°1180	1/0.25
32) AB	590	0.5	40) PJ	890	1/0.25	44) DV	1190	0.5
2) SD	°620	10	6) BA	°910	0.5	18) N	°1220	1
4) AF	°630	1/0.5	23) CK	°920	2	31) BJ	1230	1/0.25
33) AT	650	5	29) G	°950	0.25	1) AU	°1240	0.25
34) AM	660	2	14) FF	°960	5	19) CV	°1240	0.25
35) BQ	*670	1/0.25	41) SA	980	0.75	15) BC	°1250	1/0.1
36) AW	690	5	16) JP	°1020	5	45) T	1260	0.25
37) DC	700	1	28) CB	°1050	0.5/0.1	2) SD	1270	1
38) AQ	720	1	31) BJ	1060	1/0.25	46) VM	1290	1
27) Z	740	0.5/0.1	42) BF	1070	1/0.25	47) KQ	1300	1
39) MD	760	0.5	43) MC	1100	0.5	48) AV	1310	0.5
25) L	°790	5	21) CN	°1120	1	2) SD	1310	1

Call	kc	kW	Call	kc	kW	Call	kc	kW
26) HD	°1320	1	53) AE	1420	1	62) AP	1490	0.25
3) DB	°1330	5	54) BG	1430	1/0.25	63) BH	*1490	1/0.25
49) PT	1340	0.25	55) AK	*1440	0.25	64) JP	1490	1/0.25
50) BZ	1340	1	11) AD	°1440	1	65) BL	1510	1/0.25
27) XZ	1350	1/0.5	56) AC	1450	0.25	66) BL	1530	1/0.25
2) SD	1360	1/0.5	57) AR	1450	0.2	67) BT	1560	1/0.25
2) SD	1370	1	58) BO	1450	0.5/0.25	68) AJ	1590	1
51) CM	1380	5/1	59) AN	1460	0.5	69) BI	1590	1/0.25
2) SD	1390	1	60) AG	1470	0.5	70) BS	1600	1
52) AL	1400	0.25	61) AH	1490	0.25	12) DA	°1600	1
13) AZ	1410	0.5						

The following st's form Cadena Radial de la OEA: 3), 4), 9), 11), 26), + 6 mw st(s.

Short Waves: Abbrev: R.D.=Republica Dominicana.

1) Ca. Beller, P. Plata. **Te:** 570 – **L.P:** Dir: J. Rojas – **FM:** 98.2Mc 0.1kW. V. by QSL-card.

3) Máximo Gomez 14, Santiago. **Te:** 2924 – **L.P:** Dir: A. Vanderhorst – **ANN:** "Desde Santiago, en la R. D. transmite R. Libertad, Sintoniá perfecta en todo el pais".

4) Apt. 52. Monte Christi. **Te:** 161 – **L.P:** Dir: R. O. Moscoso – **D.Prgr:** N: 17.00, 00.00 – **FM:** 97Mc 0.25kW – V. by letter. Recordings accepted.

5) Ca. Altagracia 64, Higuey. **Te:** 43 – **L.P:** R. A. Morales S.

2) Ca. Dr. Tejada Florentino 8, Sto. Domingo. **Te:** 9-2120. **Cable:** Dominicana – **L.P:** Dir. Gen: J. Félix Gimberbard – **D.Prgr:** N: 11.00, 15.00, 19.00, 21.00, 03.30 – **ANN:** "Desde Sto. Domingo, Capital de la R. D. transmite R. Sto. Domingo Televisión" – V. by QSL-card – **Relay st's:** 1270/1360kc Santiago, 1360kc La Vega, 1310kc El Seibo, 1370kc Barahona, 1390kc San Juan de la Maguana. **FM:** 96Mc (Constanza) 0.25kW, 100/105Mc (Sto. Domingo) 60W/0.25kW.

6) Edif. Ocaña, Luperón 17, Sto. Domingo. **Te:** 9-3969 – **L.P:** Dir: P. J. Santana.

7) Hotel Matun, Santiago – **L.P:** Dir: J. W. Streese. **FM:** 95Mc 0.25kW.

8) Palo Hincado 48, Sto. Domingo. **Te:** 2-6129 – **L.P:** Dir: Torres Tejeda – **FM:** 92Mc 0.05kW – V. by letter.

9) Castillo Marquez 28, altos, La Romana. **Te:** 98 – **L.P:** Dir: N. Mariñez – **Ann:** "Transmite HIBD, La Voz de La Romana, desde La Romana, R. D.".

10) 16 de Agosto 129, Santiago. **Te:** 4318 – **L.P:** Dir: D. de la Rosa – **FM:** 90Mc 50W – V. by letter.

11) Capotillo 106, San Juan de la Maguna. **Te:** 99 – **L.P:** Dir: Dr. O. Cucurullo R.

12) 30 de Marzo 35, Santiago. **Te:** 3246. **Cable:** Maja – **L.P:** Dir. Gen: M. A. Jorge A – **Ann:** "H-I-D-A, R. Hit Musical, Santiago de los Caballeros, R. D, con sus frenquencias de 1600 y 3385kc respectivamente" – V. by QSL-card.

13) 30 de Marzo 27, Santiago. **Te:** 3300 – **L.P:** Dir: L. Felipe Moscoso. Dir. Tec: J. E. Macdougal – **FM:** 89.2Mc 50W – **Ann:** "Circuito de Emisoras de R. Santiago, ondas corta y larga, 89.2Mc, en Santiago, R. D." – V. by QSL-card. Re. in Sp, E.

14) Ca. Comercio 21, P. Plata. **Te:** 567 – **L.P:** Dir: D. Brugal Alfau.

15) P.O. Box 267, San Francisco de Macoris. **Te:** 2845 – **L.P:** Dir: Gen: J. Raposo P. – **Ann:** "Por la Cultura del Pueblo y la Prosperidad de la Patria, transmite La Voz del Progreso desde San Francisco de Macoris" – V. by QSL-card.

16) Ca. Padre Billini Esq. Sanchez, Sto. Domingo. **Te:** 2-144 – **FM:** 95Mc 0.25kW – 17) see 2).

18) Av. Independencia Esq, Calle D, Sto. Domingo. **Te:** 3-1025 – **L.P:** Dir. Adm: H. Pérez Reyes – **Ann:** "R. Hin desde la Feria de la Paz" – V. by QSL-card. Re. in Sp, E.

19) Apolinar Perdomo 1, Barahona. **Te:** 101 – **L.P:** Dir: E. Lama – **Ann:** "R. Barahona, La Voz del Birán..."

20) Edif. Jaar, El Conde 98, Sto. Domingo – **L.P:** Dir: J. B. Jimenez M – **FM:** 103/172.4Mc (0.25kW/15W).

21) Edif. Jaar, Sto. Domingo. **Te:** 9-8719 – **L.P:** Dir: M. Zaglul.

22) Sto. Domingo.

23) Edif. El Rubio, 1° piso, Santiago. **Te:** 2144 – **L.P:** Dir. Gen: R. Candelario L – **Ann:** "Transmite Ondas del Yaque, desde Santiago de los Caballeros en la R. D." – V. by QSL-card.

24) Casa Puerto Rico, La Romana. **Te:** 135 – **L.P:** Dir: M. Romero.

25) Ca. Abreu 30, Sto. Domingo. **Te:** 2-2370 – **L.P:** Dir: V. Portalatin. **FM:** 98.2Mc 0.1kW – V. by QSL-card.

26) Ca. Duarte 30, altos, San Pedro de Macoris. **Te:** 888 – **L.P:** Dir: F. M. Donastorg – **Ann:** "Transmite HIHD, La Voz de Oriente desde San Pedro de Macoris, R. D, una de las Naciones Unidas" – V. by QSL-card.

27) Edif. Copello, Apt. 201, Ca. El Conde, Esq. Sanchez, Sto. Domongo. R. D. **Te:** 9-6967 – **L.P:** Dir: Ing. F. Hatton – **Ann:** "Transmiten las Emisoras Nacionales HIZ desde Sto. Domingo, Capital de la R. D" – **FM:** 89.2Mc 0.06kW.

28) P.O. Box 454, Santiago de los Caballeros. **Te:** 2939 – **L.P:** Dir. Gen: J. L. Sánchez – V. by QSL-card.

29) Av. Mella 144, Sto. Domingo. **Te:** 2-2936.

Medium Waves:

30) **R. Cristal**, El Conde 24, Sto. Domingo. **L.P:** Dir: M. Báez A.

31) **Editora del Caribe**, C. Por A, Sto. Domingo (590kc San Pedro de Macoris; 830kc Sto. Domingo; 1060kc Barahona; 1230kc Moca, all projected) – 32) **Emis. HIAB**, Ca. John F. Kennedy 115, P. Plata. **L.P:** Dir: Lic. J. Mendez – 33) **R. Universal**, Hotel Jaragua, Sto. Domingo. **L.P:** Dir: E. A. Pérez – 34) **R. Aeropuerto**, 30 de Marzo 47, Apt. B, Santiago. **L.P:** M. Tulio C – 35) **Emis. HIBQ**, Ca. 35 Este 51, Sto. Domingo. **L.P:** Dir: J. Espinal M – 36) **R. Guarachita**, Palo Hincado 71A, Sto. Domingo. **L.P:** Dir: R. A. Aracena F – 37) **R. Mao**, 27 de Febrero 71, Valverde. **L.P:** Dir: T. Pujols S – 38) **R. Norte**, Ca. Pedro Fco. Bono 58, Santiago. **L.P:** Dir: A. Perez – 39) **R. Tamboril**, Peña. **L.P:** Dir: A. Dajer B.

40) **R. Popular**, Ca. Teniente A. G. Guerrero 77-A, Sto. Domingo. **L.P:** Dir: P. Justiniano P – 41) **R. Cibao**, Benito Moncion 17, Santiago. **L.P:** Dir: C. Pou – 42) **Emis. HIBF**, Ca. El Conde, Esq. Duarte, Sto. Domingo. **L.P:** Dir: M. E. Báez A – 43) **R. Programa Quisqueya**, Edif. Jaar, Sto. Domingo. **L.P:** Dir: V. M. Frument U – 44) **R. Santa Maria**, Preseminario Padre Fantino, Sto. Cerro, La Vega. **L.P:** Dir: P. Wenceslao G – 45) **R. Capital Hit**, Arzobispo Nouel 96, Sto. Domingo. **L.P:** M. de J. de la Mota – 46) **R. Bonao**, Ca. Duarte esq. Mella, Bonao. **L.P:** Dir: J. Aquino T – 47) **R. Radio**, Edif. El Palacio, Apt. 209, El Conde, Sto. Domingo. **L.P:** Dir. Gen: R. A. Martinez G – 48) **Emis. HIAV**, Ca. Uladislao Guerrero 24, Oeste, Bani. **L.P:** Dir. Gen: M. E. Bello – 49) **R. San Francisco**, 27 de Febreo Esq. Billini, San Francisco de Macoris. **L.P:** Dir: V. Ferrer T.

50) **Emis. HIBZ**, Ca. 16 de Agosto 23, San Juan de la Maguana. **L.P:** Dir. Gen: I. Aquiles R – 51) **Emis. HICM**, Sto. Domingo – 52) **Ondas del Valle**, Ca. Restauración 2, La Vega. **L.P:** Dir: D. V. de Moya – 53) **R. Tricolor**, Ca. Abreu 66, Sto. Domingo. **L.P:** G. Guerrero – 54) **R. Tamboril**, Peña. **L.P:** Dir: A. Dájer B – 55) **Emis. HIAK**, Leopoldo Navarro 13, Sto. Domingo. **L.P:** Dir: M. A. Fiallo C – 56) **R. Salcedo**, Ca. 27 de Febrero, 27 Esq. Colon, Salcedo. **L.P:** Dir: P. M. Bencosme C – 57) **Emis. HIAR**, Hotel San Cristóbal, San Cristóbal. **L.P:** Dir: El Alberti T – 58) **Emis. HIBO**, Ca. Duarte, Constanza. **L.P:** Dir: R. Marún T – 59) **Emis. HIAN**, Ca. Santana, Hato Mayor. **L.P:** Dir: E. F. Astacio.

60) **R. Azul**, Ca. San Luis 25, Santiago. **L.P:** Dir: L. Augusto A – 61) **R. Quisqueya**, Ca. Arzobispo Meriño 83, Sto. Domingo. **L.P:** Dir: J. Jimenez B – 62) **R. Gabino**, Ca. Caonabo 81, Moca. **L.P:** Dir: G. Nuñez – 63) **Emis. HIBH**, Samana. **L.P:** Dir: A. Vanderhorst – 64) **Emis. HIJP**, Ca. Francisco del Rosario Sánchez 6, Azua. **L.P:** Dir: J. A. Brea P – 65) **R. Mil Cumbres**, Av. Central Guratibo, Santiago. **L.P:** Dir: P. Pou S – 66) **R. Pueblo**, Ca. San Miguel 8, Sto. Domingo. **L.P:** as 65). V. by letter – 67) **Emis. HIBT** (projected), Av. Independencia 104, Sto. Domingo – 68) **R. Union**, Edif. Jaar, Apt. 410, Sto. Domingo. **L.P:** R. Perelta P – 69) **Emis. HIBI**, Ca. San Francisco Esq. Castillo, San Francisco de Macoris. **L.P:** Dir: J. A. Tavarez.

70) **Emis HIBS**, Av. Francisco Dominguez C, San Pedro de Macoris. **L.P:** Dir: B. A. de Soto

EL SALVADOR

L.T: GMT – 6 h – **Pr.L:** Spanish.

GOVERNMENT DEPT. FOR BROADCASTING

ADDR: Ministerio del Interior, Palacio Nacional, San Salvador – **L.P:** Ministerio del Interior: Col. F. Sanchez H.

ASOCIACIÓN SALVADOREÑA EMPRESARIOS RADIODIFUSION

ADDR: Apt. Postal 720, San Salvador – **L.P:** Pres: M. Flores.

STATIONS: All st's comm. exc. R. Nacional, 42) (Cultural).

Short Waves: Call: YS––. *=inactive.

	Call	kc	m	kW	Name
1)	CB	4840	61.98		La Voz del Pacifico, Sonsonate
2)	W	*5985	50.13	1	R. Santa Ana
3)	S	6010	49.92	5	R. Nacional de El Salvador, San Salvador: 12.00–04.15
4)	KL	*6090	49.26	1	Radiocadena YSKL, San Salvador
5)	C	*6096	49.21	1	Ondas Populares y Deportivas, San Salv.
6)	P	*6150	48.78	0.3	La Voz de Cuscatlán, Cojutepeque
7)	UA	*6190	48.47	1	R. Mil Cincuenta, San Salvador
8)	V	*9545	31.43	1	La Voz del Comercio, Santa Ana
3)	S	9555	31.40	5	R. Nac. de El Salvador, San Salvador: 12.00–04.15
9)	Y	*11725	25.58	1	R. Victoria, San Salvador
10)	AX	*11950	25.10	1	La Voz Panamericana, San Salvador

Medium Waves: Call: YS––; °=Short Wave; *=under constr.

	Call	kc	kW		Call	kc	kW		Call	kc	kW
11)	ABC	560	5	3)	S	°655	10	18)	RU	720	1
12)	EB	580	10	15)	QR	700	5	19)	R	730	10
13)	NK	600	5	16)	RS	710	1	20)	RM	740	1
14)	LN	630	1	17)	RA	720	1	21)	KLA	750	1

	Call	kc	kW		Call	kc	kW		Call	kc	kW
4)	KL	°760	10	9)	Y	°970	1	38)	CG	1210	1
22)	KLB	770	5	30)	AN	*980	1	39)	MA	*1230	1
6)	P	°780	10	31)	AS	*990	10	40)	I	1250	3
10)	AX	°800	10	5)	C	°1015	10	8)	V	°1280	1
23)	FA	810	1	7)	U	°1050	10	41)	HX	1300	1
24)	DR	820	1	32)	DM	1080	1	42)	HQ	1330	10
23)	F	840	10	33)	M	*1100		43)	CD	1360	5
25)	RC	*860	1	34)	OA	1120	1.5	44)	HZ	*1380	2.5
26)	AR	870	1	35)	G	*1130	2	45)	JI	1400	1.5
27)	LA	*890	5	36)	T	1140	1	46)	HF	1430	5
28)	QJ	910	10	37)	CF	1150	1	47)	TG	*1470	1
2)	W	°930	1	1)	CB	°1175	1	48)	FN	*1500	5
29)	ON	*940	2								

Circuito YSR (Comm.): (St's 16), 17), 18), 19), 20)) – **Addr:** Apt. Postal 720, San Salvador. **Te:** 3250. **Cable:** Yesere. **L.P:** Pres. & Gen. Mgr: B. Eserski. **D.Prgr:** All st's 12.00–06.00. **Ann:** "Circuito YSR, *la emisora popular*". **V.** by QSL-card and letter. **Re.** in Sp. E. Prgr. schedule free.

Radio Televisión YSU, S.A. (Comm.): (St's 2), 7), 11), 15)) – **Addr:** Apt. Postal 1050, San Salvador. **Te:** 1050. **Cable:** Ysua. **L.P:** Pres: A. Soler Serra. **D.Prgr:** All st's 12.00–06.00. **N:** 03.30, 05.50+short N. every 15 min. **Ann:** "En El Salvador, Centro América transmite R. Cadena YSU". **V.** by QSL-card and letter. **Re.** in Sp, E – Prgr. schedule free.

Cadena Radial Salvadoreña, S.A: (St's 12), 24), 32)). **Addr:** Edif. Torre Lopez, 3° piso, San Salvador. **Te:** 3331. **Cable:** Carasal. **L.P:** Dir. Gen: G. Ramos. Dir. Prgr: E. A. Rodriguez. Dir. Tec: O. Tario H. **D.Prgr:** All st's 12.00–06.00. **N:** Every 15 min's.

Radio Cadena YSKL: (St's 4), 21), 22), 37)) – **Addr:** Box 1329, San Salvador. **Te:** 6830. **L.P:** Gen. Mgr: M. A. Flores. **D.Prgr:** YSKL 24 h. **Other st's:** 12.00–07.30. **N.** every 15 min.

Short Waves:

1) 6a Av. Norte 15, Sonsonate – 2) Santa Ana. **V.** by QSL-card.

3) 2a Avenida Sur 113, San Salvador. **Te:** 4376. **Cable:** "Almacus". **L.P:** Dir. Gen: A. Parada h. Dir. of Prod: A. Alfonso M. Dir. Tec: A. Hernandez. **D.Prgr:** **N:** 18.45, 21.45, 24.00, 04.00. Also short news every 15 min's. **Ann:** "Esta es YSS R. Nacional de El Salvador, transmite YSS R. Nacional de El Salvador, Centroamerica" or "Esta es YSS "Alma Cuscatleca", la primera emisora Fundada en Centroamerica". **Int-Sig:** Four notes on Xylophone. **V.** by QSL-card and letter. Prgr.schedule free. Recordings accepted.

4) R. Cadena YSKL (see above).

5) Ca. Oriente 218, San Salvador. **Ann:** "Esta es YSC, R. 1015 Ondas Populares y Deportivas en San Salvador, Centro América, Laboremos por la Paz, la Cultura y el Deporte".

6) Cojutepeque, Dept. de Cuscatlan – 7) Apt. Postal 1050, San Salvador. **V.** by letter – 8) Santa Ana, Dept. de Santa Ana – 9) Ca. Gerardo Barrios 627, San Salvador – 10) 2a Av. Norte 319, San Salvador. **Cable:** Ysar.

Medium Waves: **D.Prgr:** Approx. 12.00–05.00.

11) **Radioemisora Salvadoreña**, San Miguel – 12) **Cadena Radial Salvadoreña** (see above) – 13) **R. Exitos**, Edif. Cierra, San Salvador – 14) **R. 630**, Casa Flores, San Salvador.

15) **R. Morazán**, Mejicanos. Own prgr's 12.00–06.00 – 16) **Circuito YSR**, Sonsonate – 17) **Circuito YSR**, Santa Ana – 18) **Circuito YSR**, Usulután – 19) **Circuito YSR**, San Salvador – 20) **Circuito YSR**, San Miguel.

21) **R. Universal**, Santa Ana – 22) **R. Universal**, Usulután – 23) **R. Vanguardia**, Pasaje Vilanova 1–14, San Salvador. **L.P:** Dir. Gen: E. Salazar (YSFA=San Vicente) – 24) **R. Tropical**, Santa Ana – 25) **R. Tecána**, Santa Ana – 26) **R. América**, San Salvador – 27) **R. Musical**, Santa Ana – 28) **R. Dif. YSQJ**, San Salvador – 29) **R. Dif. YSON**, San Salvador – 30) **R. Dif. YSAN**, Ahuachapán – 31) **R. Assai**, San Salvador – 32) **Cadena Radial Salvadorena**, San Miguel – 33) **R. Dif. YSM** San Salvador – 34) **R. Dif. YSOA**, San Salvador – 35) **R. Chaparrastique**, San Miguel.

36) **R. El Mundo**, Apt. Postal 210, San Salvador. **L.P:** Dir. Gen: B. Suarez de Cross – 37) **Cadena del Pacifico**, Sonsonate – 38) **La Voz Suprema de Occidente**, Santa Ana – 39) **R. Sistema Cultural**, Santa Ana – 40) **R. Reloj**, San Salvador – 41) **Radiocadena 1300**, Mejicanos.

42) **R. Progreso**, Apt. 855, San Salvador. **L.P:** Dir. Gen: S. Echegoyen. Dir. Tec: D. C. Solt. **D.Prgr:** **Spanish:** 11.00–03.00. **N:** 12.15, 01.00. **English:** 03.00–04.00. **N:** 03.00. **Ann:** Sp: "R. Progreso... para el progreso... hacia la educación... hacia la cultura... y hacia Dios". **V.** by letter. **Re.** welcomed.

43) **Cadena del Pacifico**, Santiago de Maria – 44) **R. Dif. YSHZ** – 45) **La Voz del Litoral**, Usulután – 46) **R. Caribe**, Cojutepeque – 47) **R. Sonora**, San Salvador – 48) **R. Dif. YSFN**, San Salvador.

GUADELOUPE (French West Indies)

L.T: GMT–4 h – **Pr.L:** French.

OFFICE DE R. DIFF. TELEVISION FRANÇAISE (O.R.T.F.)

ADDR: Basse-Terre. **Te:** 148 – **L.P:** Dir. Gen: F. Jaquemart. St. Mgr: M. Villenouve. Mgr: E. Angelé. Dir. Tec: J. A. Edel.

STATIONS (System TRT):

Pointe-a-Pitre 640kc 20kW – Basse-Terre 1420kc 4kW.

HOME SCE: 10.30–12.00, 15.00–18.00, 20.00–02.00.

ANN: "Ici R. diff. Française Basse-Terre" – **INT-SIG:** Guitar – **V.** by letter. Rp.

GUATEMALA

L.T: GMT–6 h – **Pr.L:** Spanish.

DIRECCION GENERAL DE RADIODIFUSION Y TELEVISION NACIONAL

ADDR: Edif. de la Tipografia Nacional, Ca. 18 de Septiembre 6-72 Zona 1, Guatemala. **Te:** 23318. **Cable:** Tevenac.

STATIONS: All st's comm. exc. 10), 20), 23), 26), 53) Gov; 1), 2), 3), 5), 7), 8) Educ. **Locations:** Guatemala City exc. where indicated.

Short Waves: Call: TG---. *=inactive.

	Call	kc	m	kW	Name	Approx. h of tr.
1)	RW	2340	128.4	0.2	La Voz Catolica de Barillas:	23.30–02.30
2)	SC	2350	127.6	0.5	La Voz de Candelaria, Huehuetenango:	22.45–24.00
3)	BA	2360	127.1	0.5	R. Maya Barillas, Huehuetenango:	00.30–02.45
4)	ZB	3365	89.45	0.15	R. Club	
5)	VN	3360	89.29	0.2	La Voz de Nahualá, Nahualá, Sololá:	23.30–01.30
6)	LAB	*4900	61.22		R. Victoria	
7)	RY	4920	60.98	0.2	La Voz de San Raymundo, S. Raymundo:	23.00–06.00
8)	RH	4940	60.73	0.2	Escuela Relaciones Humanas	
9)	NA	5955	50.40	5	R. Cultural:	12.00–03.00
10)	MZ	5970	50.25	0.5	R. Nacional, Mazatenango	
11)	AR	5980	50.17	1	R. Quetzal:	13.00–04.30
12)	JA	5990	50.08	5	R. Nuevo Mundo:	12.00–06.00
13)	TA	6000	50.00	1	R. Sonora:	12.00–06.00
14)	DA	6020	49.83	2	La Voz de Occidente, Quetzaltenango:	12.00–05.00
15)	TQ	6030	49.75	5	R. Internacional:	12.30–06.00
16)	CO	6040	49.67	0.5	La Voz del Trópico, Quetzaltenango	
17)	XB	*6050	49.59		R. Centro Musical	
18)	RLA	6060	49.50	1	R. Cadena Landivar, Quetzaltenango:	11.00–05.00
19)	PA	6070	49.42	1.2	R. Palmeras, Escuintla:	11.00–05.00
20)	SM	6080	49.34	0.5	R. Nacional, San Marcos	
21)	DZ	6090	49.26	2	R. Centroamericana:	11.00–06.00
22)	OA	*6100	49.18		La Voz de las Americas	
23)	QA	6110	49.10	1	La Voz de Quezaltenango	13.00–04.00
24)	HC	6140	48.86	1	R. Universal:	12.00–06.00
25)	AZ	6150	48.78	0.5	R. Continental:	12.00–06.00
4)	ZA	6160	48.70	0.25	R. Club:	12.00–06.00
26)	WB	6180	48.54	1	La Voz de Guatemala:	12.00–06.00
27)	FP	6190	48.47	0.5	R. Nacional Tikal, Flores Peten:	18.20–20.20, 23.00–04.30
28)	KN	*6200	48.39		R. Latina	
9)	NB	9670	31.02	5	R. Cultural:	03.00–04.00
23)	QB	11700	25.64	1	La Voz de Quelzaltenango:	13.00–04.00
30)	RA	11750	25.53	0.5	R. Modelo, Retalhuleu.	

Medium Waves: Call: TH--. °=Short Wave. *=also FM.

Call	kc	kW	Call	kc	kW	Call	kc	kW
31) BOL	560*	10	25) AX	°950*	0.5	11) AQ	°1270	1
19) PR	° 575	0.4	42) AF	950	5	53) TU	1280	0.5
32) Y	590*	1	43) CQ	980	1	54) AJ	1280	0.7
33) GA	600*	1	44) AH	1000	0.2	55) MU	1300	0.2
34) VA	610	0.5	45) UX	1020	10	26) WC	°1360	10
26) W	°640	10	17) XA	1040*	10	13) T	°1390*	10
35) RT	660	0.5	14) D	1070	0.35	56) AC	1400	0.5
36) RS	680	2	18) RL	°1070	2	57) GH	1410	0.5
37) HR	700*	10	46) C	1080	0.5	58) RP	1420	0.5
9) N	°720	5	18) AV	1090	1	10) MS	°1450	0.5
38) RF	750	0.5	28) K	°1100	1	59) AG	1460	0.5
39) BX	770	0.5	47) RR	1120*	10	16) COA	°1470	0.5
24) HB	°780	1	22) O	°1140	5	60) IZ	1470	0.5
15) TQ	°810	5	4) Z	°1170	0.5	61) HU	1480	0.5
23) Q	°830	1	48) ED	1210	1	21) DX	°1500	0.5
37) KL	840*	5	49) ED	1210	1	62) MG	1520	1
40) X	850	3	50) LL	1230	0.5	30) RE	°1540	1
20) SM	°860	1.5	28) K	°1240	5	63) RE	1540	1
12) J	°880*	10	51) L	1240	1			
41) TL	920	5	52) LG	1250	0.5			

Short Waves:

1) Rev. W. Woods, Convento Barillas, Huehuetenango. **V.** by QSL-card.

2) Convento Jacaltenango, Huehuetenango. **L.P:** St. Mgr: A. Lopez. Dir. Tec: R. P. J. McNeill M. M. **D.Prgr:** Spanish 22.45, Jacalteco 23.50. – **Ann:** "Esta es TGSC, La Voz de Nuestra Señora de Cande-

laria, transmitiendo en una frequencia de dos mil tres cientos cincuenta kc desde el Pueblo de Jacaltenango en el Departamento de Huehuetenango en la República de Guatemala en Centro América".
3) Santa Cruz Barillas, Huehuetenango. **L.P:** St. Mgr: L. W. Veith. Dir. Tec: D. Ekstrom.
4) 3a Ave 12-29 Z-1, Guatemala – 5) Nahualá, Sololá – 6) Mazatenango, Such.
7) Mpo. San Raymundo. **L.P:** Dir. Gen: V. M. Garcia Rojas. Dir. Tec: J. Luis Ortiz. V. by QSL-card. Recordings accepted.
8) 12 Ca. 3-38 Z-1, Guatemala.
9) Apt. 601, Guatemala (owned by Central American Mission, 3611 Congress Ave, Dallas 19, Texas, US) – **L.P:** St. Dir: D. Ruthledge. Dir. Prgr: D. Ruthledge, E. Alburez. Dir. Tec: E. Yoder – **D.Prgr:** On 720kc: 12.00–04.00 in Spanish; On 5955kc: 12.00–03.00 in Spanish. N: 13.00, 19.00, 01.00. On 9670kc: 03.00–04.00 in **English. Ann:** E: "These are your Good News Stations, TGN and TGNB". Sp: "Estas son sus emisoras culturales TGN y TGNA". – V. by QSL-card. Re. in Sp. & E, recorded if possible. Rp. Prgr. schedule free – 10) Mazatenango Such.
11) 12 Ave. 26-27 Z-5, Guatemala. **L.P:** Dir: M. T. de la Rosa H. **Ann:** "R. Quetzal la emisora simbolo en Guatemala C. A. 1270kc onda larga, 5980kc onda corta".
12) Apt. Postal 281, Guatemala. **L.P:** St. Mgr: M. Cotero A. Dir. Tec: J. de la Cerda. – **D.Prgr:** N: 12.45, 19.00,01.00 – **Ann:** "Esta es R. Nuevo Mundo con la musica mas cervana a su recuerdo" – V. by QSL-card.
13) 5a Ave. 16-38, Z-1, Guatemala. – **Ann:** "Con Diez mil watts transmite en Guatemala", R. Sonora, 1390kc onda larga, 6000kc onda corta".
14) 7a Ave O-26, Z-1, Quetzaltenango. **L.P:** Dir: J. A. Yllescas F – **Ann:** "TGD 1070kc onda larga, TGDA 6020kc onda corta, R. La Voz de Occidente en Quetzaltenango, Guatemala" – V. by QSL-card.
15) KM. 12 Carretera Roosevelt, Guatemala. – **Ann:** "TGTO R. Internacional de Guatemala en 810kc onda larga, 6030kc onda corta, auditorio en toda la República" – **Int-Sig:** Electrical Xylophone – V. by QSL-card – 16) Coatepeque, Quezaltenango.
17) 5a. Ca. O-26, Z-1, Guatemala. **L.P:** Dir: J. A. Fernandez. – **Ann:** "TGXA R. Centro Musical 1040kc".
18) 14 Ave "A" 78, Quezaltenango. **L.P:** Dir. Gen: H. Diaz – **D.Prgr:** N: 13.00, 18.30, 01.00 – **Ann:** "Esta es R. Cadena Landivar, difundiendo desde Quezaltenango, Guatemala, América Central, en las siguintes freq's: TGRL 1170kc onda larga, TGRLA 6060kc onda corta banda de 49 metros y 92.2Mc FM" – V. by letter. Re. in Sp, E.
19) 8a Av. Sur, Escuintla. **L.P:** Dir: F. Tres G – V. by QSL-card.
20) San Marcos – 21) 2a Ca. 36-89, Z-11, Guatemala – 22) 2a Ave. 13-39, Z-1 Guatemala.
23) 21 Av. 1-19, Z-3, Quezaltenango. **L.P:** Dir: J. C. Loarca del Valle. **Ann:** "Difunden las estaciones TGQ R. Nacional de Quezaltenango, Guatemala" (followed by 4 xylophone notes). V. by QSL-card.
24) 7a Ave. 9-34, Z-1, Guatemala. **L.P:** Dir: M. T. Conde. – **Ann:** "R. Universal". V. by QSL-card – 25) 13 Ca. 12-26, Z-1 Guatemala.
26) Ca. 18 de Septiembre 6-72, Z-1, Guatemala. **Te:** 23318. **Cable:** Tevenac. **L.P:** Dir. Gen: M. M. Hidalgo. Dir. Tec: E. Gomez. Dir. Prgr: J. Alberto Fernandez – **Ann:** "Esta es TGW La Voz de Guatemala" (followed by 3 xylophone notes). V. by QSL-card. Recordings accepted. – **F.PL:** 20kW on 1360kc, 10kW on 6180kc, new 10kW tr's on 9760, 15170kc.
27) Ciudad Flores Peten. **L.P:** Dir. Prof. J. E. Rosado P. – **Ann:** "R. Nacional Tikal, TGFP, La Voz de la Leyenda Maya en el Horizonte Norte". – V. by special letter.
28) 6a Av. 10-45, Z-1, Guatemala. **L.P:** Dir: H. Gonzalez G. – V. by QSL-card – 30) Retalhuleu.

Medium Waves: D.Prgr: 12.00–05.00 Approx.
31) **R. Cinco Sesenta**, 8a Ave. 9-23, Z-1, Guatemala – 32) **R. Progreso.** 6a Ave. 10.50, Z-1, Guatemala.
33) **La Voz de la Libertad**, 13 Ca. 6-77, Z-1, Guatemala.
34) **R. Monumental**, Antigua – 35) **R. Tacaná**, 19 Ca. 11-34, Z-1, Guatemala – 36) **R. Sur**, Escuintla.
37) **R. Mundial**, 6a Ave 2-80, Z-1, Guatemala (TGKL=R. Emperador). **D.Prgr:** 11.45–06.00. V. by QSL-card.
38) **R. Faro Aviateca**, 1a Ca. 6-90, Z-9, Guatemala – 39) **R. Corporacion**, Quezaltenango – 40) **R. Ciro's**, 8a Ca. 2-28, Z-1, Guatemala.
41) **La Voz de la Telefunken**, 12C 4-16, Z-1, Guatemala. **Cable:** Telefunken. **L.P:** Dir: E. Mayorga L. – **D.Prgr:** 12.30–05.30 – **Ann:** "La Voz de la Telefunken 920kc Guatemala" – V. by letter.
42) **R. Indiana**, Av· la Libertad, Mazatenango – 43) **R. Central**, 6a Ave, 1-31, Z-9, Guatemala – 44) **R. Mil**, 6a Ave. 4-61, Z-10, Guatemala.
45) **R. Panamericana**, Carretera Roosevelt, Guatemala – 46) **R. dif. TGC**, 7a Ave. 20–20, Z-1, Guatemala – 47) **R. Reloj**, 2a Av. 8-67, Z-9, Guatemala – **D.Prgr:** 12.00–06.00 – V. by letter.
48) **R. Mil Doscientos Diez**, 3a Ave, 13-07, Z-1, Guatemala.
49) **R. Mil Doscientos Diez**, Puerto Barrios – 50) **R. Columbia**, 9a Ave. 13-17, Z-1, Guatemala – 51) **R. Victoria**, Mazatenango – 52) **La Voz de los Mayas**, 9a Ca. 0-02, Z-1, Guatemala – 53) **R. Nacional**, Totonicapan – 54) **R. Tropicana**, Escuintla – 55) **La Voz de la Buena Musica**, 13 Ca. 9-62, Z-1, Guatemala – 56) **R. Cultural de Colomba**, Quezaltenango – 57) **R. Xelajú**, Quezaltenango.
58) **La Voz de la Eterna Primavera**, 8a Ca. 3-18, Z-1, Guatemala.
59) **La Voz de Huehuetenango**, Huehuetenango – 60) **La Voz del Atlántico**, 19 Ave 1-46, Z-6, Guatemala – 61) **R. Circuito TGHU**, Posada Belem, Antigua – 62) **R. Nacional Matias de Galvez**, Pto. Matias de Galvez – 63) **R. Modelo**, Zacapa.

HAITI

L.T: GMT–5 h – **Pr.L:** French, Creole.

DEPARTMENT DES TRAVEAUX PUBLICS

Service des Télégraphs, Telephones & Radios, Port-au-Prince.

STATIONS: All St's comm. exc. 1), 2), 12), 14) (Rlg).

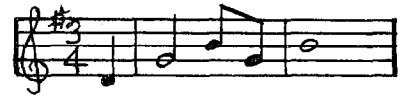
Short Waves: Call 4V–––. *=inactive.

Call	kc	m	kW	Name and h of tr.
1) U	2410	124.5	0.25	R. Lumière, Les Cayes: 10.00–13.30
2) SO	2450	122.5	0.25	R.St. 4VEH, Cap Haitien: 10.30–15.00, 17.00–01.30
3) M	4940	60.73	0.5	R. Diffusion Haitienne, Port-au-Prince: 11.00–23.00
4) GS	5020	59.76	0.5	R. Independance, Gonaives: 11.30–14.30, 17.00–20.30, 23.00–03.00
5) GA	*5030	59.64	0.2	R. Capois la Mort, Port-de-Paix.
6) AF	*5090	59.00	0.2	Voix de la Grande-Anse, Jérémie
7) CB	*5740	52.26	0.3	Voix du Sud, Aux Cayes
8) B	5985	50.13	7.5	Voix de la Revolution Duvalieriste, Port-au-Prince: 11.00–04.00.
9) EB	6015	49.88	0.75	R. Caraibes, Port-au-Prince: 10.00–04.00
21) G	6050	49.59	0.1	R. Union, Port-au-Prince: W 11.00–14.00, 17.00–04.00. Sun 11.00–23.00
10) CP	6075	49.38	0.15	Voix du Nord, Cap Haitien
11) HW	6080	49.34	1	R. Haiti, Port-au-Prince: W 11.00–04.00. Sun 13.30–03.00
1) O	6100	49.18	0.25	R. Lumière, Les Cayes: 10.00–13.30
12)	*6100	49.18	0.54	Voix de l'Ave Maria, Cap Haitien
2) E	6120	49.02	2.5	R.St. 4VEH, Cap Haitien: 10.30–15.00, 17.00–01.30
13) WA	6155	48.74	0.25	R. Citadelle, Cap Haitien: 12.00–01.00
14) M	*6165	48.66	1	R. Manrèse, Port-au-Prince
15) SC	*6178	48.55	0.2	R. Voix de Saint Marc
8) C	9485	31.61	7.5	Voix de la Revolution Duvalieriste, Port-au-Prince: 11.00–04.00
1) U	9635	31.14	0.25	R. Lumière, Les Cayes: 10.00–13.30
2) EH	9770	30.71	2.5	R.St. 4VEH, Cap Haitien } 10.30–15.00
2) EJ	11835	25.35	0.5	R.St. 4VEH, Cap Haitien } 17.00–01.30

Medium Waves: °=Short Wave. *=inactive. a=not using its off. freq.

Call	kc	kW	Call	kc	kW	Call	kc	kW
1) I	°760	1	2) EF	°1035	10	11) W	°1330	1.5
1) UE	780	0.25	8) A	°1080	1.5	23) S	1385	1
16) LS	860	0.2	21) F	°1120	0.2	24) GM	1430	1
17) 2A	a880	0.15	9) AB	°1150	1	10) EA	°1460	0.15
18) JS	930	0.25	22) RD	1170	0.25	25) PE	*1475	0.2
19) CD	960	0.3	1) IE	1180	0.25	26) A2F	*1530	0.15
20) CPS	990	0.2	3) YM	°1250	0.6			

Short Waves:
1) B.P. 71, Aux Cayes (for 4VUE: B.P. 1051, Port-au-Prince) – **L.P:** Dir: L. A. Markwood. Dir. Tec: D. Hartt – **D.Prgr:** 10.00–13.30 (**French** 10.00–13.00, **Spanish** to Cuba 13.00–13.30) – **Ann:** "Réseau Culturel Haitien, émettant des Cayes et de Port-au-Prince« – V. by QSL-card. Rp. Re. not wanted at present owing to shortage in personnel – **Pub:** Prgr.schedule.
2) Box 1, Cap Haitien. **Cable:** Ormiso – **L.P:** Dir. Gen: Dr. E. Erny. Dir. Tec: M. E. Picazo. Dir. Prgr: H. Hess – **D.Prgr:** On all freq's: **English:** 11.30–15.00, Sun also 19.00–21.00. N, **Wrp:** 12.00 (Sun 11.45) – **Spanish:** 10.30–11.30, 21.00–23.00 – **French & Creole:** 17.00–19.00, 23.00–01.30. **Listener's Post** (Mbg, DX-Prgr): Fri 12.15 to No. America – **Ann:** "Ici la Voix Evangelique d'Haiti" or "Ici R. 4VEH". Sp: "Escucha Ud. La Voz Evangelica de las Antillas" or "R. 4VEH". E: "This is the Evangelistic Voice of the West Indies" or "This is R. 4VEH" – **Int-Sig:** Gong.



V. by QSL-card or letter. Rp. preferred but not required. Re. in E Sp, F – **Pub:** Prgr.schedule (twice a year) free on request.
3) Ruelle Jeanty, Port-au-Prince – **L.P:** Dir: Y. Michel – **Ann:** "Pour le Rayonnement, de la Culture et l'Avancement du Peuple Haitien, ici la Radiodiff. Haitienne, Poste 4VYM...".

4) Rue Egalité, Gonaives – **L.P:** Dir. Gen: P. Mitton. Dir. Tec: P. Baptiste. Dir. of Prgr's: E. Denis – **D.Prgr:** Mainly musical prgr's presented in French, Spanish, Creole & English – **Ann:** "Ici R. Independance, station 4VGS" – **V.** by letter.
5) Port-de-Paix – **L.P:** Dir. Tec: G. Arthamin.
6) Jérémie – **L.P:** Dir. Tec: A. Félix – 7) Aux Cayes.
8) B.P. 1143, Port-au-Prince. **Cable:** Radioco – **L.P:** Dir. Gen: S. Lassegue. Dir: M. Dagfal. Dir. Tec: A. Brown – **D.Prgr: La Voix de la République d'Haiti:** D 12.00, 19.30, 23.15, 02.30 (rel. by most st's at Port-au-Prince). **N:** Every h on the h at 14.00–22.00, 02.45. **English:** D 11.30–12.00, 01.30–02.00. **Arabic:** (comm. prgr): Sun 17.15–18.15 – **Ann:** "Ici la Voix de la Revolution Duvalieriste, Poste 4VA, 4VB et 4VC émettant sur onde longues avec la fréquence de 1080kc et sur ondes courtes, alternativement dans les bandes de 49 et 31 mètres".
9) 23 Ruelle Chavannes, Port-au-Prince. **Te:** 4115 – **D.Prgr: N:** 13.00, 00.00 – **Ann:** "Ici R. Caraibes, Poste 4VAB et 4VEB émettant sur la bande des 260m 86, et celle des 49m de Port-au-Prince. Capitale de la République d'Haiti, Grandes Antilles" – **V.** by QSL-card or letter. Rp.
10) Cap Haitien – **L.P:** Dir. Tec: E. Anacréon – **Ann:** "Ici la Voix du Nord, Poste Comm. de Radiodiff. 4VCP, affilée à la chaine de la Paix des Nations Unie...".
11) P.O. Box 737, Port-au-Prince – **L.P:** Dir. R. Widmaier. Dir. Tec: H. Widmaier – **Ann:** "Ici R. Haiti, Postes 4VW, 4VRH et 4VWH, à port-au-Prince. Vous captez R. Haiti, émettant dans les bandes de 230, 49 et 31 mètres a Port-au-Prince. 1330 sur le cadran de votre poste: R. Haiti".
12) Eveché du Cap Haitien, Cap Haitien.
13) Cap Haitien – **L.P:** Dir. Tec: S. Wainwright – **Ann:** "Ici R. Citadelle, Poste 4VWA au Cap Haitien, Capitale touristique de la République d'Haiti, Grandes Antilles" – **V.** by QSL-card.
14) P.O. Box 525, Port-au-Prince.
15) Rue Louverture 158, St. Marc – **L.P:** Dir. Tec: F. S. Cômes – **V.** by letter.

Medium Waves:
16) **R. Progres,** Blvd. Dessalines 758, Port-au-Prince. **D.Prgr:** 10.00–04.00 – 17) **R. Nationale,** Route de Carrefour, Port-au-Prince. **D. Prgr:** 10.00–04.00(Sun/Mon 05.00).
18) **La Voix des Gonaives,** Gonaives. **L.P:** Dir: J. Simon.
19) **R. Carillon,** Rue Dr. Aubry 157, Port-au-Prince. **D.Prgr:** W 11.00–13.00, 17.00–23.00. Sun 14.00–02.00.
20) **R. Cacique,** Rue Traversière 3, Port-au-Prince. **D.Prgr:** 11.00–02.30 – **Ann:** "Pour l'unité de la famille haitienne, vous captez R. Cacique, Poste 4VCPS, émettant avec la fréquence de 990kc, de ses studios situés au numero 3 de la Rue Traversière, à Port-au-Prince".
21) **R. Union,** 1 Ruelle Louverture, Port-au-Prince – 22) **R.Tropiques,** Ave. John Brown, Port-au-Prince. **D.Prgr:** 15.00–03.00(Sun 22.00). **Ann:** "Canal Onze Soixante-Dix, Avenue John Brown, (Lalue); le Poste: R. Tropiques" – 23) **R. Port-au-Prince,** Stade Sylvio Cator, Port-au-Prince. **D.Prgr:** 10.30–03.00.
24) **Magloire Broadc. Circuit,** Rue Americaine, Port-au-Prince. **L.P:** Dir: Frank C. Magloire (owner local newspaper "Le Matin"). **D. Prgr:** 11.30(Sun 13.30)–04.00.
25) **La Voix des Antilles,** Rue Capois 68, Port-au-Prince – 26) **R. Quisqueya,** Rue des Miracles 88, Port-au-Prince. **Ann:** "Au service du commerce, au service des hommes d'affaires et du public en général, ici R. Quisqueya".

HONDURAS (British)

L.T: GMT−5 1/2 h (Su GMT−6 h) – **Pr.L:** English, Spanish.

RADIO BELIZE (Gov.)

FI: By state and license fees – **ADDR:** P.O. Box 89, Belize. **Te:** 80. **Cable:** "Radio" – **L.P:** Dir: E. G. Waight. Chief Eng: L. H. Young.
STATIONS: 834kc 20kW – 3300kc 90.85m 5kW.
HOME SCE. in English, Spanish: 12.00–19.00, 22.30–04.00. **English:** 12.00–16.00, 17.00–19.00, 00.30–01.15, 01.30–04.00. **N:** 13.00, 15.00, 18.30, 01.00, 03.00 – **Spanish:** 16.00–17.00, 22.30–00.30, 01.15–01.30. **N:** 17.00, 18.45, 00.00, 01.15.
ANN: English: "This is R. Belize". Spanish: "Esta es R. Belice".
INT-SIG: Opening: "Land of the Gods". Closing: "Land of the Gods" and UK Nat Anthem – **V.** by QSL-card.

HONDURAS (Rep.)

L.T: GMT−6 h – **Pr.L:** Spanish.

DIRECCION GENERAL DE COMUNICACIONES ELECTRICAS, Tegucigalpa – **L.P:** Dir: F. Pon Aguilar.

STATIONS: Shortwaves: Call HR−−
Where no times indicated, usually 11.00–06.00.

	Call	kc	m	kW	Name & h of tr.
1)	D4	4755	63.09	0.5	R. Oriental, Danli
2)	LC	4770	62.89	1	R. Continental, San Pedro Sula
3)	ST	4790	62.29	1	R. 1° de Mayo, Tela: 12.00–03.00
4)	VC	4820	62.24	5	R. Evangelica, Tegucigalpa: 12.00–20.00, 23.00–02.30
5)	VJ	4845	61.92	0.5	R. Catolica S. Isidro, La Ceiba: W 17.00–19.00, 23.00–02.00. Sun 13.30–18.00, 23.00–02.00
6)	VA	4855	61.79	1	R. Corona, San Pedro Sula
7)	QN	4880	61.48	0.5	La Voz del Atlantico, Puerto Cortez
8)	VL	4890	61.35	1	R. Lux, Olanchito
9)	SY	4914	61.05	0.5	La Voz del Pacifico, San Lorenzo
10)	OM	4920	60.98	1	R. Ulúa, El Progreso: 10.00–05.00
11)	PL	4920	60.98	1	R. Progreso, El Progreso
12)	VS	4930	60.85	1	R. Católica, Tegucigalpa
13)	VN	4940	60.73	0.5	R. Sonora, Danli
14)	RZ	4950	60.60	1	R. Juticalpa: 13.00–24.00
15)	TL	4950	60.60	1	R. Tic-Tac, Tegucigalpa: 11.00–05.00
16)	QW	4995	60.06	1	R. Trópico, Tela
17)	OE	5035	59.58	1	La Voz de las Fronteras, Ocotepeque
18)	N	5875	51.05	1	La Voz de Honduras, Tegucigalpa: 11.00–24.00
19)	VF	5955	50.37	1	R. Exitos, Tegucigalpa
20)	HR	5960	50.34	1	La Voz de Occidente, Sta. Rosa de Copan
21)	WW	5972	50.23	1.25	La Voz de Centroamerica, San Pedro Sula: 11.00–05.00
22)	PI	5995	50.04	1	El Eco de Honduras, San Pedro Sula
23)	SP	6020	49.83	1	R. Moderna, Tegucigalpa
15)	TL	6035	49.71	1	R. Tic-Tac, Tegucigalpa: 11.00–05.00
24)	DN	6040	49.67	0.5	R. Caribe, La Ceiba
25)	LP	6050	49.59	1	R. America, Tegucigalpa
26)	U	6060	49.50	1	R. Centro, Tegucigalpa
27)	MH	6075	49.38	5	La Voz del Junco, Sta. Bárbara
28)	NQ	6090	49.26	1	R. Morazan, Tegucigalpa
29)	XW	6110	49.10	1	R. Comayagüela, Tegucigalpa
30)	ME	6135	48.90	1	R. El Patio, La Ceiba
31)	XE	6145	48.82	1	R. Mil Treinta, Juticalpa: 11.00–05.00
32)	TV	6165	48.66	1	R. Televisión, Tegucigalpa
33)	MT	6185	48.50	1	R. Molina Rojo, San Pedro Sula
34)	D2	6195	48.43	1	La Voz de Atlantida, La Ceiba
23)	TL	9650	31.09	1	R. Tic-Tac, Tegucigalpa: 02.00–06.00

Medium Waves: Call HR−−. ° also on shortwave.

Call	kc	kW	Call	kc	kW	Call	kc	kW
35) TX	560	1	12) VS	°910	10	21) VW	°1190	1/6
35) T4	590	1	42) ZE	930	1	29) XW	°1200	1
25) LP	°610	10	43) YW	950	1	50) QL	1230	1
33) MT	°640	1	44) BT	960	1	14) RZ2	°1240	1
19) VF	°650	1	10) OM	°970	1	51) YT	1270	1
18) N	°670	10	15) TL	°980	1	52) XA	1280	1
36) RT	700	1	2) LC	°1000	1	53) XX	1300	1
32) TV	°720	1	31) XE	°1030	1	54) H6	1340	1
37) TV2	720	1	45) XN	1040	1	30) ME	°1350	1
38) QQ	730	0.25	46) VH	1040	1	20) HR	°1370	1
39) JS	740	1	47) LE	1050	1	4) VC	°1380	1
24) DN	°750	1	48) XM	1070	1	3) ST	°1390	1
28) NQ	°770	10	6) VA	°1080	1	22) PI	°1400	1
40) MD	800	0.25	11) PL	1110	1	16) QW	°1420	1
41) XS	820	1	15) TL	1110	1	55) OC	1480	1
23) SP	°830	1	49) RO	1130	1	27) MH	°1500	1
26) U	°860	10	7) QN	°1150	1			

Short Waves:
1) Hernan Mendoza M, Danli – 2) San Pedro Sula.
3) Tela. **L.P:** St. Mgr: L. Felipe G. Dir. Tec: F. Hernandez B. **D.Prgr: N:** 17.30. **Ann:** "HRST R. Primera de Mayo, La Voz del Trabajador Hondureño". **V.** by letter. Recordings accepted.
4) Apt. 270, Tegucigalpa. **L.P:** Dir. Gen: D. R. Jones. Dir. Tec: O. Nuñez. **D.Prgr: N:** 13.00, 18.15, 01.15. **English:** 02.00–02.30. **V** by QSL-card or letter.
5) Apt. Postal 14, La Ceiba. **L.P:** Dir. Gen: Rev. P. Gomez C. M. St. Mgr: J. Eguia. Dir. Tec: C. Alberto V. **D.Prgr: N:** 18.30, 23.30. **V.** by letter.
6) 14 Ca. S.O. 38, San Pedro Sula. **L.P:** St. Mgr: R. R. Barnett. Dir. Tec: R. A. Vargas. **V.** by letter. Recordings accepted.
7) Andrés Griffin C, Puerto Cortez – 8) Elvin E. Santos, Olanchito – 9) Alberto H. Matamoros, San Lorenzo.
10) El Progreso, Yoro. **L.P:** Dir. Gen & Dir. Tec: E. Castillo. **V.** by letter. Recordings accepted – 11) Carlos Coleman, El Progreso – 12) Apt. Postal 480, Tegucigalpa. **V.** by QSL-card – 13) Jaime Nuñez Morga, Danli.
14) Juticalpa. **L.P:** Dir. Gen: V. Rubi Z. Dir. Tec: V. Guerrero D. **D.Prgr:** 11.30–03.00(m.w.) **Ann:** "R. Juticalpa, La Expresión musical de Oriente" – **V.** by letter. Recordings accepted.
15) Apt. Postal 771, Tegucigalpa. **L.P:** St. Mgr: E. de Mena A. Dir. Tec: L. Carlos G. **Ann:** "HRTL, R. Tic-Tac de Honduras". **V.** by QSL-card. Recordings accepted – 16) Ramón Funez A, Tela. **V.** by QSL-card or letter – 17) Edgardo Valle S, Ocotepeque.

18) 8a Ca. 410, Tegucigalpa. **Te:** 20761. **L.P:** St. Mgr: R. Breve M. Dir. Tec: F. P. Aguilar. **D.Prgr:** 11.00–05.00(m.w.). **N:** 12.15, 18.15. **Ann:** "Transmite HRN, La Voz de Honduras, en Tegucigalpa, Honduras, Centro America". **Int-Sig:** Gong & Xylophone. **V.** by QSL-card. **F Pl:** 10kW (5kW) – 19) Tegucigalpa.
20) Dr. A. Rendon H, Santa Rosa de Cópan.
21) Apt. 120, San Pedro Sula. **Te:** 1828. **L.P:** St. Mgr: I. de Sikaffy. Dir. Tec: H. Merman. **D.Prgr N:** 12.00, 17.30, 18.15, 01.30, 04.30. **Ann:** "HRVW y HRWW La Voz de Centroamerica". **V.** by letter. Recordings accepted.
22) Apt. 24, San Pedro Sula – 23) Tegucigalpa – 24) La Ceiba.
25) Apt. Postal 259, Tegucigalpa. **V.** by QSL-card.
26) Apt. Postal 642, Tegucigalpa. **V.** by letter.
27) Ca. Independencia, Sta. Barbara. **L.P:** Dir. Miguel Hasbun.
28) P.O. Box 393, Tegucigalpa – 29) Humberto Andino N, Tegucigalpa. **V.** by QSL-card – 30) Gregorio Irias, La Ceiba – 32) Apt. 734, Tegucigalpa. **V.** by letter.
31) Juticalpa. **L.P:** Dir. Gen: E. Bayardo Rodriguez. **D.Prgr: N:** 18.00. **Ann:** "Esta es R. Mil Treinta transmitiendo desde Juticalpa Olancho Honduras CA". **V.** by letter. Recordings accepted.
33) Olga L. de Kattan, San Pedro Sula – 34) Roberto Moncada, La Ceiba.
Medium Waves:
35) **R. Satélite**, Tegucigalpa (HRT4 San Pedro Sula) – 36) **R. Exitos**, San Pedro Sula – 37) **R. Télévisión**, San Pedro Sula – 38) **R. Musical**, Camayagua – 39) **R. Metropolitana**, San Pedro Sula.
40) **R. Yoro**, J. Martinez, Yoro – 41) **R. San Pedro Sula**, Carlos Coleman, San Pedro Sula – 42) **R. Cortés**, Puerto Cortés – 43) **R. Panamericana**, Tegucigalpa – 44) **R. Norte**, San Pedro Sula – 45) **R. Ceiba**, Antonio R. Diaz, La Ceiba – 46) **R. Mil**, Tegucigalpa – 47) **R. Emperador**, Eduardo Morales, San Pedro Sula – 48) **R. Meridiano**, Choluteca – 49) **R. Universal**, Herman A. Padgett, Tegucigalpa.
50) **Centro Radial Hondureño**, Siguatepeque – 51) **R. Estrella de Oro**, San Pedro Sula – 52) **R. Choluteca**, Choluteca – 53) **R. Lima**, Carlos Coleman, La Lima – 54) **R. El Mundo**, San Pedro Sula – 55) **R. Bahia**, Roatán.

JAMAICA

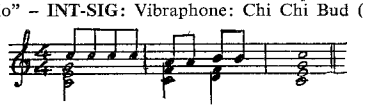
L.T: GMT–5 h – **Pr.L:** English.

RADIO JAMAICA & REDIFFUSION LTD. (Comm.)

FI: By adv – **AD:** 12 min's per h – **ADDR:** 32 Lyndhurst Rd, Cross Rd, Kingston 5. **Te:** 68151. **Cable:** Broadco – **L.P:** Gen. Mgr: G. Binns, MA. Dir. Prgr: J. Colley. Chief Eng: W. G. Matthews.
STATIONS (System: Gates):
Mandeville 770kc 5kW – Point Galina 580kc 5kW
Kingston 720kc 5kW – Montego Bay 550kc 5kW
FM: Kingston 94.6Mc 1kW, 91.9Mc 0.03kW, Christiana 90.6Mc 0.85kW.
HOME SCe. in English: 09.45–05.00(Sat 06.00) – **N:** 10.30, 11.00, 12.00, 12.30, 13.00, 13.10, 15.00, 17.00, 18.00, 19.00, 22.00, 22.30, 23.00, 24.00, 02.00, 02.10, 04.30 – Imminent Hurricane warnings on the h every h of tr.
ANN: "This is R. Jamaica and Rediffusion" – **V.** by QSL-card.

JAMAICA BROADCASTING CORPORATION

(Comm. and public Service)
FI: By adv. and Gov. aid – **AD:** Max. 12 min per h – **ADDR:** 5 So. Odeon Ave, Kingston. **Te:** 65621. **Cable:** Jarad – **L.P:** Gen. Mgr: V. H. Ennever. Asst. Gen. Mgr: F. M. Needham. Dir. Tec: L. Stewart. Dir. Prgr: F. Hughes.
STATIONS (System: Gates):
Kingston 560kc 5kW – Spur Tree 620kc 5kW
Montego Bay 700kc 5kW – Point Galina 750kc 5kW
FM: Kingston 96.3Mc 1.2kW – Half Way Tree 99.9Mc 0.08kW – Christiana 91.1Mc 1.2kW.
HOME SCE: 09.45–05.00. **N:** 11.00, 12.00, 12.30, 13.00*, 13.10, 15.30, 17.30, 18.30, 21.30, 22.30, 23.00*, 00.30, 02.30, 04.00 (* = BBC) – **Wrp:** W 11.30, 12.40, 17.35, 23.32, 04.02.
ANN: "This is the Jamaica Broadc. Corporation" – "This is JBC Radio" – **INT-SIG:** Vibraphone: Chi Chi Bud (Jamaica folksong)



V. by QSL-card, Rp.

LEEWARD ISLANDS

L.T: GMT–4 h – **Pr.L:** English.

Montserrat

RADIO MONTSERRAT (Gov.)

ADDR: P.O. Box 51, Plymouth, Montserrat. **Te:** C 76. **Cable:** "RADMON" – **L.P:** Gen. Mgr: C. Osborne. Prgr. Mgr: V. B. Browne. Dir. Tec: D. Edgecombe.
STATION: 885kc 0.25kW.
HOME SCE. in English: W 10.00–12.00, 22.30 02.00. Sun 20.30–23.45.
ANN: "This is R. Montserrat broadc. to the entire Leeward & Windward Isl. on 885kc from the Groves Botanical Gardens in Plymouth".

RADIO ANTILLES (Priv, Comm.)

ADDR: P.O. Box 35, Montserrat. **Te:** 223. **Cable:** ARC – **L.P:** Chmn: E. Gifford. Public Relations and Adv: H. Apperlay. Techn. Dir: M. Zimmerman. Chief Eng: G. Anderson.
STATIONS (R. Antilles, System Brown Boveri):
930kc 322.6m 200kW – 740kc 405.4m 20kW.
D.PRGR'S: English/French: 10.45–13.45, 15.45–18.00, 21.00–01.00, Spanish 01.00–03.00 – **ANN:** "This is R. Antilles" – "Aqui R. Antillas"
INT-SIG: Low gong.

Antigua

ANTIGUA BROADCASTING SERVICE (Gov.)

ADDR: St. Johns, Antigua – **L.P:** Mgr: E. A. M. John.
STATION: 620kc 0.5kW – **HOME SCE. in English:** 10.00–13.00, 16.00–18.00, 22.00–01.00.

St. Kitts

RADIO ZIZ (Gov.)

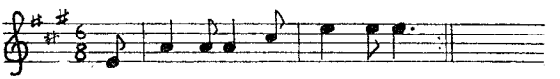
ADDR: Springfield, Basseteire, St. Kitts – **L.P:** Mgr: K. Osborne.
STATION: ZIZ 570kc 0.66kW – **HOME SCE. in English:** 10.45–14.00, 22.00–02.00. **N:** 11.00, 23.00, 23.30 – **ANN:** This is R. Station ZIZ" – **V.** by letter. Recordings accepted.
The Marconi Company Ltd, G.B, delivered 660kW mw-tr.

MARTINIQUE (French West Indies)

L.T: GMT–4 h – **Pr.L:** French.

ANTILLES-GUYANE NETWORK

(Office de R.diff. Télévision Francaise)
ADDR: Clairiere, Fort de France. **Te:** 6060 – **L.P:** Dir: F. Jacquemart. Dir. Tec: J. A. Edel. Tec. Asst: H. Mourey.
STATIONS: (Systems: CFTH, TRT): 1310kc 229m 50kW
3315kc 90.50m 4kW – 4895kc 61.29m 4kW – 5994kc 50.04m 1kW
HOME SCE. in French: On 1310kc: 10.00–01.20. On 3315kc: 10.00–12.00 & 22.00–01.20. On 4895kc: 12.00–22.00. On 5995kc: 14.00–20.00 – **N: French:** 10.30 (relay Paris), 11.30, 17.15 (local), 17.30, 23.15 (local), 23.30.
ANN: "Ici Radiodiff. Française Antilles-Guyane" – **INT-SIG:** First eight notes of "Adieu Foulards, Adieu Madras" on piano.



V. by letter.

MEXICO

L.T: GMT–6 h (Mexico generally), GMT–7 h (Sonora, Sinaloa, Nayarit and Lower Calif.), GMT–8 h (Upper Calif.) – **Pr.L:** Spanish.

DIYECCION GENERAL DE TELECOMUNICACIONES

Departamento de Radiodifusion – ADDR: Col. Narvarte, México, DF.
STATIONS: All st's comm. exc. 2), 4), 8), 15) (XEAD only), 21), 70), 92), 115), 121) (XEJM only), 241) (Cultural).
Short Waves: Call: XE----. * = inactive.

Call	kc	m	kW	Name and h of tr.
1) VJ	2160	139.39	0.25	R.Dif. XEVJ, Chilpancingo
2) SE	2380	126.0	0.35	Sria. de Educación Pública, México
3) JN	2390	125.5	0.5	Educ. Univ. Iberoamericana, México: 12.30–13.30, 01.30–02.30
4) JG	4820	62.24	0.2	Emis. Casa de la Cultura, Guadalajara: 20.00–05.00
5) UMT	5960	50.34	0.25	Universidad Iberoamericana, México
6) OI	6010	49.92	2.5	R. Mil, México: 12.00–07.00
7) UW	6020	49.88	0.25	El Eco de Sotavento, Vera Cruz: 12.00–06.00
8) XQOC	6045	49.63	0.25	R. Universidad Potosina, San Luis Potosi: 16.00–05.00 (Sun 13.00–01.00)
9) XG	6065	49.46	1	R.Dif. México, México: 12.00–06.00
10) CMT	6090	49.26	1	R.Dif. XECM/XECMT, Ci. Mante: 13.00–03.00
11) QM	6105	49.14	0.25	Sistema R. Yucatan, Mérida: 13.00–06.00
12) UDS	6115	49.06	1	R. Universidad de Sonora, Hermosillo: 17.00–03.00
13) TS	6120	49.02	0.5	R. XETS, Tapachula, Chis.
14) RCM*	6130	48.94	0.1	R. Central de México, México
15) RUU	6140	48.86	0.25	R. Universidad de Chihuahua

Call	kc	m	kW	Name and h of tr.
16) WW	6165	48.66	10	La Voz de la América Latina, México: 11.50–05.15
17) XA	*6175	48.58	0.1	R. Gobernación, México
18) ICM	6185	48.50	1	La Voz del Maestro México 19.00–22.00
16) WW	9515	31.53	10	La Voz de la América Latina, México: 11.50–05.15
19) FT	9545	31.43	0.25	La Voz de Veracruz, Vera Cruz: 11.30–06.00
20) QK	9555	31.40	1	La Hora Exacta, México: 13.00–06.00
21) YU	9600	31.25	0.25	Universidad Nac. de México (irr.)
22) QQ	*9680	30.99	1	R.Dif. XEQ/XEQQ, México
23) MP	11740	25.55	1	R.Dif. XEMP, México
24) BR	*11820	25.38	0.15	El Heraldo de Sonora, Hermosillo
25) HH	11880	25.25	5	R. Dif. Comerciales, México: 12.00–06.00
25) RR	15110	19.85	5	R. Dif. Comerciales, México: 12.00–06.00
26) VOZ	15200	19.74	5	R.dif. XEVOZ, México: irr.

Medium Waves: Call: XE---. °=Short Wave.
D=Daytime operation only (12.30–02.00 approx.) a=Belongs to RCN. St's printed in fat type are in México City.

Call	kc	kW	Call	kc	kW	Call	kc	kW
16) WA	540	150	82) NT	790	5/0.75	134) HZ	990	1/0.25
27) KL	550	1/0.25	83) RC	790	10/1	135) HU	a1000	1
28) QW	a550	5	84) RPC	790	5/0.4	136) FV	1000	1D
29) UC	550	1/0.25	85) SU	790	1D	**6) OY**	°1000	10
30) OC	560	1.5/1	86) VA	a790	5/0.2	137) FM	1010	1/0.2
31) BJB	570	5/0.25	87) AN	800	1D	138) HL	1010	1/5
32) LQ	570	1	88) LO	800	150	139) DX	a1010	1
33) NZ	570	1/0.25	89) FW	a810	50/30D	140) TX	1010	1/0.25
34) OA	a570	5/0.25	90) UX	810	5D	141) VK	1010	5/0.1
35) TJ	570	1/0.1	91) BA	a820	1	142) WS	1010	5/0.25
36) VX	570	1/0.25	92) LA	830	10/5D	143) XL	1020	1D
37) AV	580	5/1	93) FG	840	1D	83) QR	1030	10/1
38) DZ	580	1/0.45	94) TQ	850	10D	144) D	1050	10
39) FI	580	5/0.25	95) M	a850	5	145) G	1050	150
40) HP	580	1/0.25	96) ZR	850	1D	17) DP	°1060	50d
41) MU	580	5/0.25	72) MIA	850	1D	146) GY	1070	1/0.25
42) UE	a580	5	97) AL	860	1D	147) IT	1070	1/0.25
43) E	590	1/0.15	98) DU	a860	1/0.5	148) SP	1070	5/0.5
44) FD	590	5/0.25	99) MO	860	5	149) OD	1090	1D
45) HQ	590	1/0.5	100) NW	860	1/0.25	150) RB	1090	50d
6) PH	**°590**	**5**	**21) UN**	**°860**	**5**	151) WL	1090	2.5D
46) BB	a600	5/1	101) EM	880	1D	152) LEO	a1110	5
47) DN	600	1	102) TZ	880	1	153) OQ	a1110	1D
48) Z	a600	2	**16 W**	**°900**	**250**	**16) CN**	**°a1110**	**50d**
49) BX	610	5/0.5	16) WB	900	5	154) TR	1120	1D
50) CV	a610	1/0.25	103) HO	910	1/0.25	155) MR	1140	1/0.5
51) EL	610	1D	7) U	°920	1/0.5	156) BF	1150	1/0.25
52) GS	610	1/0.5	24) BH	°920	5/1	157) GE	a1150	1D
53) JA	610	1/0.5	104) BM	920	5/1	**83) JP**	**1150**	**10d**
54) KZ	a610	1/0.5	105) CQ	a920	1/0.1	158) JS	1150	1/0.5
55) UF	610	5/1	106) MJ	920	1/0.25	159) RM	1150	1/0.5
56) BU	620	5/0.25	107) OK	920	1/0.25	160) XZ	a1150	1/0.2
57) CK	620	1/0.1	108) QD	920	1D	161) GR	1160	1D
58) NK	**620**	**10**	**22) Q**	**°940**	**50**	162) RT	1170	5D
59) OO	620	1/0.25	109) WV	940	1D	163) IT	a1170	1/0.25
60) ACA	630	5/0.25	110) GM	950	3/2.5d	**164) FR**	**1180**	**1/0.25**
61) FB	630	5/1D	111) YJ	950	1/0.1	165) JET	1190	1
62) FU	630	2/0.75	112) K	a960	5/1	166) PZ	a1190	1D
4) JB	°630	0.5	113) CS	960	1/0.2	167) ZI	1200	1D
63) RPS	630	1	114) GB	960	1/0.5	**22) B**	**°1220**	**100**
13) TS	°630	1/0.5	115) HK	960	1/0.25	168) S	1240	1/0.25
64) ZM	650	5	116) OZ	960	1/0.25	169) BN	1240	1/0.25
65) RPM	660	10/5	117) IQ	a960	1/0.1	170) BQ	1240	1/0.25
66) FJ	680	1/0.1	118) KS	a960	1	171) LD	a1240	1/0.1
67) KQ	a680	5/0.5	119) ROO	a960	1/0.5	172) LM	1240	1/0.25
68) LG	680	10/5	120) J	a970	10/5	11) MQ	°1240	1/0.25
69) ORO	680	1	121) O	970	1	173) RZ	1240	1/0.25
70) N	690	20/5	122) CJ	970	1	174) ZX	1240	1/0.2
71) TRA	690	50D	123) MH	970	1/0.1	175) DK	1250	5/1
72) AR	700	1D	**22) DF**	**°970**	**10/5D**	176) DL	a1250	1/0.5
73) BL	710	5/0.25	124) OW	970	1/0.25	177) JX	1250	1/0.1
23) MP	°710	1/0.5	36) VT	970	5/0.4	178) PI	1250	1/0.1
74) ON	710	2/1	125) UG	970	0.5D	179) SJ	1250	1/0.5
75) RL	710	1/0.25	126) KE	980	1/0.25	19) TF	°1250	0.5
76) KU	a710	1	127) LC	980	5/0.2	**180) L**	**1260**	**10/1**
9) X	°730	50	128) NR	a980	5/0.5	181) R	1260	1/0.25
77) ZZ	760	5D	129) TU	980	10/1	182) ME	1260	1/0.25
78) ABC	**760**	**5**	130) XT	a980	1	183) OG	1260	1/0.15
79) BI	790	1/0.25	131) T	990	50d	184) AX	1270	5/0.5
80) FE	790	1/0.5	132) BC	990	1/0.1	185) MW	1270	1D
81) GZ	790	1/0.25	133) CL	990	5	11) MH	1270	1/0.5

Call	kc	kW	Call	kc	kW	Call	kc	kW
186) NY	1270	1/0.25	224) KF	1360	1/0.5	262) PP	1450	1/0.25
187) PV	1270	1/0.25	225) OL	1360	1/0.15	263) VH	1450	1/0.25
188) ZU	1270	1/0.25	226) SA	1360	1/0.5	255) HX	1460	1/0.25
189) AG	1280	1	227) A	1370	1	264) JT	1460	1D
190) AW	1280	5/0.5	228) HF	1370	5	265) LX	1460	10D
191) BW	1280	1/0.6	229) PA	a1370	5/0.25	8) XQ	°1460	0.25
192) CAM	a1280	1	230) XL	1370	10/0.1	266) YC	1460	1
193) LK	a1280	1	**6) CO**	**1380**	**5**	267) AU	1470	5
194)AP	1290	1/0.1	231) GW	1380	1/0.175	213) CU	a1470	1
20) DA	1290	10/1	232) RK	1380	1/0.5	268) DS	1470	1/0.2
195) JL	1300	1/0.25	233) OR	1390	1	269) HI	1470	1/0.25
196) KW	a1300	1	234) TL	1390	5/1	**270) SM**	**1470**	**10/5**
197) LE	1300	1D	235) GD	1400	1/0.2	271) ND	a1470	1
198) SW	1300	1D	236) I	1400	1/0.25	272) YA	a1470	1
199) XW	1300	1/0.1	237) TO	1400	1/0.25	273) HM	1480	1D
200) AM	1310	1/0.25	238) NG	1400	1/0.2	274) PR	1480	10/0.5
201) BP	1310	5/0.25	239) TY	1400	5/0.2	275) AL	1490	1
202) FH	1310	1D	240) VV	1400	1/0.15	276) DR	1490	1/0.25
203) HV	1310	1	241) XB	1400	10	277) ED	1490	1/0.25
204) PO	a1310	1/0.25	242) AS	1410	1/0.25	278) FF	1490	1/0.25
15) RU	°1310	1/0.25	156)BF	1410	1/0.25	279) GT	1490	1/0.25
205) TE	1310	1	**6) BS**	**°1410**	**5/1**	280) RO	a1490	1
138) TIA	1310	1/0.25	243) CF	1410	1/0.5	281) TAA	1490	1/0.2
83) AI	**1320**	**10/1**	148) SP	1410	1	282) VZ	1490	1/0.2
206) RJ	a1320	1/0.5	244) XJ	1410	1/0.5	283) MS	a1500	1
207) UH	1320	1/0.1	245) F	1420	5/0.5	**25) RH**	**°1500**	**20D**
208) UI	1320	1/0.5	246) H	1420	1	284) SD	a1530	1D
209) BO	1330	1D	247) EW	1420	1D	**6) UR**	**1530**	**5**
210) FC	1330	1	248) WE	1420	5/0.17	222) NC	1540	1/0.25
211) RP	1330	1/0.1	249) WJ	1420	1/0.25	285) BG	a1550	5
212) WQ	1330	1D	250) XX	1420	2	286) NU	1550	5D
213) CW	1340	1/0.2	251) CZ	1430	1/0.25	287) ZL	1550	10
214) JK	1340	1/0.25	252) IG	a1430	1/0.1	288) RMK	1560	1/0.5
215) DKT	1340	1/0.25	253) LL	1430	1/0.25	289) RX	1560	1/0.25
216) MA	a1340	1	254) LY	1430	1D	290) RF	1570	250
31) NV	1340	1/0.25	255) OX	1430	5/0.5	291) DM	1580	50
217) OE	1340	1	256) WD	1430	2/0.15	292) LI	a1580	1/0.25
218) OM	1340	1/0.25	83) LZ	1440	5/1	293) NQ	1580	1/0.5
116) OZ	1340	1/0.25	10) CM	a1450	1/0.25	294) QL	a1580	1/0.2
219) LU	a1340	1	257) GC	a1450	1	255) NH	1590	1/0.2
20) QK	**°1350**	**1**	258) XD	a1450	1	**26) VOZ**	**°1590**	**10/5**
220) TB	1350	5/0.5	259) JD	1450	1/0.25	295) BZ	a1590	1D
221) TM	a1350	1	260) JM	a1450	1	296) KB;	1590	1/0.15
222) Y	1360	1/0.17	261) NA	1450	1/0.5	297) AE	a1600	50
223) DQ	1360	1/0.1						

+134 stations less 1kW not mentioned.

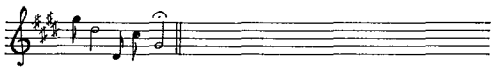
PRINCIPAL BROADCASTING NETWORKS

A) **Radio Programas de México** (with 73 affiliated st's) – **ADDR:** Bucareli 109, 4° piso, México, DF – **L.P:** Pres: C. Serna Martinez. Gen. Mgr: C. Serna Alvear. Dir. Tec: S. Pang B. Dir. Prgr: H. G. Rivera.
Owned and operated st's: XEX, México City (with all sw, FM and rel. st's); XERPM 660kc, México City; XEDK 1250kc, Guadalajara, Jal; XEMR 1140kc, XENL 860kc, XENJ 1480kc Monterrey, NL; XER 1260kc Linares, NL; XEVM 960kc Montemorelos, NL.
B) **Radio Cadena Nacional** (with 65 affiliated st's) – **Addr:** Vallarta 1,6° piso México, DF. **Te:** 469648 – **L.P:** Dir. Gen: R. Cutberto Navarro. Dir. Tec: M. Vasquez – **Key st:** XERCN 1110kc, México City. Other st's: XEACM 1110kc, Campeche, XELEO 1110kc León – **D.Prgr:** All st's 12.00–06.00 – **V.** by QSL-card.

The Mexican Gov. requires all st's to carry "La Hora Nacional del Gobierno Méxicano" every Mon 04.00–05.00.

Short Waves:
1) Dirección General de Educación del Estado Chilpancingo, Guerrero.
2) Sria de Educación Pública, Dirección de Asuntos Indigenas, Sección Administrativa, México DF (tr. at Semachique, Chih.)
3) Av. Cerro de los Torres 395, México 21, DF. **Te:** 49-35-00. **Cable:** Uni-Bero – **L.P:** Dir. Gen: F. Xavier Mena Ortiz. Dir. Tec: D. Chavez Meneses. **Ann:** "XEJN-OC Cultural, Huayacocatla, Ver" – **V.** by letter. Re. in any language.
4) Gobierno del Estado de Jalisco, Casa de la Cultura, Guadalajara, **L.P:** Dir. Gen: F. R. González, Dir. Tec: E. Beas.
5) Zaragoza 84, México, DF (Tr. at Sisoguichi, Chih).
6) Insurgentes Sur 1870, México, DF. **L.P:** Dir. Gen: E. Guillermo Salas. Broadc. & Sales Mgr: F. Ibarra, C. Flores. Dir. Adm: M. Martinez R – **D.Prgr:** mw 24 h. **N:** Every h on the h and 13.30, 14.30 – **Ann:** "R. Mil, en los mil kc de su radio con música a su gusto" – XEPH 1380kc: 13.00–06.00, English 13.30–14.30(W), 01.30–03.15(D exc. Sun & Mon), French 04.15–04.45(Tues, Thurs, Sat), German 00.15–01.00(Sat), Italian 03.15–04.15(Tues, Sat) – R. 590 (XEPH): 13.00–07.00 – **V.** by QSL-card or letter.
7) Av. Independencia 230, Veracruz, Ver – **L.P:** Dir. Gen: F. Pazos S.

Dir. Tec: F. Pazos de la Torre – **Ann:** "El Eco de Sotavento desde Veracruz" – **V.** by letter. Re. in Sp, E.
8) Apt. Postal 456, San Luis Potosi. **Te:** 2-52-52 – **L.P:** Dir. Gen: G. Medina de los Santos. Mgr: C. Martinez Bravo. Dir. Tec: J. de la Luz Lomeli S. Dir. Foreign Rel: R. Alonso M – **D.Prgr:** W 16.00–05.00, Sun 13.00–01.00. **English Lessons:** W 17.40, 23.40 – **Ann:** "Escucha Vd. a R. Universidad XEXQ 1460kc y XEQOC 6045kc en la ciudad de San Luis Potosi, República Mexicana" or "Sintoniza usted con R. Universidad Potosina XEXQ y XEXQOC en 1460kc y 6045kc" – **Int-Sig:** Marimba



V. by letter. Recordings accepted.
9) Rio de la Loza 196, México, DF – **L.P:** Dir. Gen: M. O'Farrill. Dir. Tec: Ing. F. Solis – XEX rel. st's (all on 730kc): León (Gto) 100/50kW, Veracruz (Ver) 1kW and 5 st's of 0.5kW at Monterrey (NL), Saltillo (Coah), Torreon (Coah), Guadalajara (Jal), San Luis Potosi (SLP) – **D.Prgr:** 12.00–06.00. N: 12.30, 12.55, 20.30, 05.00, 05.55; W 14.00, 17.00; Thurs–Sun 00.30, 01.00; Thurs–Sat 04.15; also every 15 min (short bulletins) – **Ann:** "Desde México, XEX en el 730 de su radio, canal internacional y sus estaciones en León, Veracruz, Monterrey, Saltillo, Torreon, Guadalajara y San Luis Potosi" –**V.** by QSL-card or letter.
10) Apt. Postal 79, Ci. Mante, Tams – **L.P:** Dir. Gen: R. Lopez Mendez. Dir. Tec: L. Fernandez C – **Ann:** "Escuchan ustedes a XECM onda larga y XECMT onda corta, operando por una vida mejor en el campo de México transmitiendo simultaneamente desde Ciudad Mante, Tamaulipas, México" – **V.** by letter.
11) Apt. Postal 217, Merida, Yuc – **L.P:** Dir. Gen: R. Dominguez L. Dir. Tec: H. Padron M – **N:** Every h on the h – **V.** by letter – XEMH: R. Merida, Ca. 58 No. 493, Merida Yuc.
12) Universidad de Sonora, Hermosillo, Son. **Te:** 36950 – **L.P:** Dir. Gen: Ing. M. R. Canale. Dir. Prgrs: H. Estavillo M – **Ann:** Sp: "Esta es R. Universidad de Sonora, transmitiendo a través de sus estaciones XEUS y XEUDS desde la Universidad de Sonora, en Hermosillo, Sonora, México". E: "This is R. University of Sonora, broadc. on 850 and 6115kc through this st's XEUS and XEUDS from the campus of the University of Sonora, at the city of Hermosillo, State of Sonora, Republic of Mexico" – **V.** by QSL-card. Recordings accepted.
13) Primera y Av. Norte 9, Tapachyla, Chis.
14) Apt. Postal 7892, México, DF – **L.P:** Dir. Gen: R. Cutberto Navarro. Mgr: E. Nassar Jr. Dir. Tec: E. Diaz G – **D.Prgr:** 11.00–06.00. N: every 5 min. before the h – **Ann:** "Aqui México... XERCN, Estación Piloto de R. Cadena Nacional..." – **V.** by letter.
15) Domicilio Conocido, Chihuahua, Chih.
16) Cadena Radiodif. Mexicana, S.A, Ayuntamiento 52, México, DF. **Te:** 181220 – **L.P:** Dir. Gen: B. Sancristobal. Dir. Tec: J. Zepeda. Dir. Prgr: R. Cardona – **D.Prgr:** 11.50–05.15 on 900/6165/9515kc. Relay st: XEWA, XEWB, XEWB, XEWK, XEWA: 11.50–05.00. N: 12.30, 13.35, 14.00, 14.45, 19.30, 20.30, 01.40, 04.20, 04.25, 05.30, 06.00. **Sport N:** 14.10, 01.50, 05.43. **Comm:** 14.50, 15.25, 19.15, 20.50, 21.05, 21.25, 04.40, 05.40, 05.46 – **Ann:** "XEW y XEWW, La Voz de la America Latina desde México" – **V.** by letter.
17) Ca. de Bucareli, México, DF (inactive both sw and mw).
18) Instituto Federal de Capacitación del Magisterio, Dr. Jimenez 244, México, DF.
19) Apt. Postal 74, Veracruz, Ver. **Te:** 2-22-50 – **L.P:** Dir. Gen: J. de Dios Rodriguez D. Dir. Tec: L. Martinez – N: 13. 15,14.55, 03.15 and 5 min. before each h to 05.55 – **Ann:** "La Voz de Veracruz" – **V.** by QSL-card.
20) Tiber 100, 9° piso, México 5, DF. **Te:** 110814 – **L.P:** Dir. Gen: G. Morales B. Dir. Tec: F. Gomez B – **D.Prgr:** mw 24 h – **Ann:** "XEQK y XETT, la unica hora exacta del Observatorio Nacional de Tacubaya" – **V.** by letter. Re. in Sp, E, G, F. Recordings accepted.
21) Oficinas Técnicas, Ci. Universitaria, Mexico 20, DF. **Te:** 281157 – N: 20.00, 05.00 – **Ann:** "Esta es R. Universitaria Nacional de México transmitiendo simultaneamente en sus freq's de 860kc de onda larga, 9600kc de onda corta, Banda Internacional de 31.25m, y 96.1Mc de FM, desde sus estudios en la Ciudad Universitaria de la capital mexicana" – **V.** by letter.
22) Dr. Rio de la Loza 182, 2° piso, México, DF. **Te:** 18-52-00 – **D.Prgr:** XEB (mw): 24 h. XEQ/XEDF (mw): 12.00–05.00. N: Every h on the h; on XEQ special music and news prgr. at 05.00–06.00 – **Ann:** On XEB: "En el 1220 de su radio, esta es XEB" or "Desde México, XEB en el 1220 de su radio, canal libre internacional". On XEQ: "XEQ desde México" – **V.** by QSL-card or letter.
23) Quemada 40, México, DF.
24) P.O. Box 68, Hermosillo, Son – **L.P:** J. R. Agraz N – **N:** Every h on the h – **Ann:** "XEBH, El Heraldo de Sonora desde Hermosillo" – **V.** by letter.
25) A.R.S.E. S.A, Quemada 40, Col. Narvarte, México, DF – **N:** 13.31, 20.45, 00.15, 04.00.
26) Paseo de la Reforma 174, 90 Piso, México, DF.

Medium Waves:
27) **R. XEKL**, Zamora 12, Jalapa, Ver – 28) **R. Mexicana de Mérida**, Ca. 64, No. 526, Mérida, Yuc – 29) **R. XEUC**, Hidalgo 19, Tehuantepec Oax – 30) **R. XEOC**, Av. Chapultec 471, México, DF.
31) **R. Fiesta (XEBJB) & R. Alegria (XENV)**, Ave. Madero Ote. 111A, Monterrey, NL. **D.Prgr:** 12.00–08.00. **N:** every half h.
32) **R. XELQ**, Morelos Nte 68, Morelia, Mich – 33) **R. Impulsora de Culiacán**, Blvd. 50, Oriente, Culiacan, Sin.
34) **R. Oaxaca**, C. Bustamente 17, Oaxaca – 35) **R. XETJ**, Av. Lerdo de Tejada 1564, Torreón, Coah – 36) **R. XEVT/XEVX**, XEVT: Zaragoza Sur 3, Villahermosa, Tabasco; XEVX: Morelos 58, Comalcalco.
37) **R. Guadalajara**, Av. Vallarta 1458, Guadalajara, Jal. **Te:** 47331. **L.P:** Dir. Gen: M. López Diaz. **D.Prgr:** 12.00–08.00 (Spanish/English). **Ann:** "XEAV, R. Guadalajara canal 58". **V.** by QSL-card or letter.
38) **R. XEDZ**, Av. 3 No. 551, Cordoba, Ver – 39) **Pregonero del Edo de Chihuahua**, Libertad 1302, Chihuahua.
40) **R. XEPH**, Ca. 14 No. 150, Ci. Victoria, Tams – 41) **R. XEMU**, Carranza 3, Piedras Negra, Coah. – 42) **La Voz de Chiapas**, Ca. Central 5, Tuxtla Gutiérez, Chis – 43) **R. XEE**, 20 de Noviembre 122, Pte. Durango, Dgo – 44) **R. XEFD**, Carretera a Matamoros, Rio Bravo, Tams – 45) **R. Hermosillo**, Rosales y Vildesolda, Hermosillo, Son – 46) **R. Acapulco**, Morelos 3, Acapulco, Gro – 47) **R. Dif. del Norte**, Av. Juárez 1465, Pte. Torreón, Coah – 48) **La Voz de la Peninsula**, Ca. 56 No. 508, Merida, Yuc – 49) **R. Coahuila**, Av. Carranza 164, Sabinas, Coah.
50) **R. XEXV**, Francisco I, Madero 35, Ci. Valles, S.L.P. – 51) **R. Dif. XEEL**, T. Larrey 4, Fresnillo, Zacatecas. **L.P:** Dir: R. Montelongo D. Dir. Tec: J. A. Casas Torres. **D.Prgr:** 06.30–23.00 – 52) **R. Guasave**, Zaragosa 45, Guasave, Sin – 53) **R. XEJA**, Pasaje Tanos, Ca. Enriques, Jalapa, Ver – 54) **La Voz del Istmo Tehuantepec**, D. Conocido, Tehuantepec, Oax – 55) **R. XEUF**, Portal Carillo 8, Edif. Silva, Uruapan, Mich – 56) **R. XEBU**, V. Carranza 1816–18, Chihuahua, Chih – 57) **R. Dif. XECK**, 20 de Noviembre y Victoria, Durango, Dgo – 58) **R. 620**, Balderas 32, México, DF. **L.P:** Dir. Gen: V. Blanco R. **D.Prgr:** 13.00–06.00 – 59) **R. XEOO**, Lerdo 197, Pte. Tepic, Nayarit – 60) **R. Pacifico**, Acapulco, Gro.
61) **Emis. Incorporadas de Monterrey**, 5 de Mayo 119, Monterrey, NL. **D.Prgr:** 12.00–16.00. **N:** Every half h – 62) **R. XEFU**, Hidalgo 36, Cosamaloapan, Ver – 63) **R. Ranchito**, A. Flores 362, Mazatlán, Sin. **L.P:** Dir: L. Pantoja P. – 64) **La Voz del Comercio de Zamora**, 5 de Mayo 730, Zamora, Mich – 65) **R. XERPM**, Dr. Rio de la Loza 56, México, DF – 66) **R. XEFJ**, B. Juárez 86, Teziutlan, Pue – 67) **R. Soconusco**, Parque Infantil, Tapachula, Chipas – 68) **R. Impulsora del Centro**, Paseo de los Insurgentes 1, Léon, Gto – 69) **R. XEORO**, Apt. Postal 61, Guasave, Sin.
70) **R. XEN**, Zacatecas 229, Condom, Yucatan, México DF – 71) **R. del Pacifico**, Esq. Lerma y Bravo, Tijuana – 72) **R. XEAR** (Zapopan) & **XEMIA** (Chalapa), Ave. Colon 115, Guadalajara, Jal. **D.Prgr:** **N:** every half h – 73) **R. Dif. XEBL**, Blvd. 5 Febrero 50, Culiacán, Sin – 74) **R. XEON**, Av. Norte 2, Tuxtla, Gutierréz, Chis.
75) **La Voz Costena desde Colima**, 27 de Septiembre 328, Colima. **L.P:** Dir: R. Vasquez Vda. de Levy. **D.Prgr:** 18.00–05.00. **V.** by letter. Rp – 76) **R. XEKU**, 5 de Mayo y Mina, Acapulco, Gro – 77) **R. XEZZ** Av. Juárez 595-2, Guadalajara – 78) **R. fónica de México, S.A**, Plaza de los Ferrocarriles 5, México, DF – 79) **R. XEBI**, Madero 310, Aguascalientes, Ags.
80) **R. XEFE**, Aldama 2611, Nuevo Laredo, Tams – 81) **R. XEGZ**, Apt. Postal 6, Ci. Lerdo, Dgo – 82) **R. XENT**, Apt. 105, La Paz, BC.
83) Articulo 123, No. 90, México, DF. **XERC:** R. Popular de México. **XEQR:** Corporación Mexicana de Radio. **XEPJ:** R. América. **XEAI:** R. Aeropuerto. **XELZ:** R. Variedades. **D.Prgr:** 12.30–08.30.
84) **R. TV Parral**, Hotel Victoria, Chihuahua, Chih – 85) **R. XESU**, Edif. Bertha, desp. 222, Mexicali, BC. **D.Prgr:** 05.00–17.00.
86) **R. Tabasco**, Av. Pino Suarez 24A, Villahermosa, Tab – 87) **R. Ocotlán**, Madero 42, Ocotlán, Jal – 88) **R. Dif. Continental**, Mérida 1155, Ci. Juarez, Chih – 89) **R. XEFW**, Madero 416, Ote. Tampico, Tams. **L.P:** Dir: V. Florest. **D.Prgr:** 12.00–04.00.
90) **R. XEUX**, Hidalgo y Progreso, Tuxpan, Nayarit – 91) **R. Fortin**, Apt. Postal 4, Fortin de las Flores – 92) **R. Metropolitan**, Paseo de la Reforma 139, México, DF – 93) **R. Dif. XEFG**, Independencia y Madero, Cely, Gunajuato. **L.P:** Dir: R. Olivares G – 94) **R. XETO**, Oriente 4 No. 5-B, Orizaba, Ver – 95) **R. XEM**, Independencia 1211, Chihuahua, Chih – 96) **R. XEZR**, Matamoros 18, Zaragoza, Coah – 97) **R. Dif. XEAL**, N. Heroes 670, Manzamillo, Col – 98) **R. XEDU**, 20 de Noviembre 105, Pte. Durango, Dgo – 99) **R. XEMO**, Durango 10, Tijuana, BC.
100) **R. XENW**, Matamoros 14, Culiacán, Sin – 101) **R. Dif. XEEM**, Aldama 55, Rio Verde, S.L.P. – 102) **R. XETZ**, Tequila, Jal – 103) **R. XEHO**, No Reelección 224, Ci. Obregon, Son – 104) **R. XEBM**, Jardin Hidalgo 15, San Luis Potosi, S.L.P – 105) **R. Culiacán**, Escobedo 226, Pte. Culiacán, Sin – 106) **R. XEMJ**, Zaragoza Sur 607, Piedras Negras, Coah – 107) **R. XEOK**, Xicotencatl 1051, Monterrey, NL – 108) **R. Dif. XEQD**, Ca. Victoria 319, Chihuahua, Chih – 109) **R. XEWV**, Av. Madero 420, Mexicali, BC.
110) **R. XEGM**, Av. "G" 185, Tijuana, BC – 111) **Televisión Nortena**,

Apt. Postal 16, Nueva Rosita, Coah – 112) **El Pregonero del Bravo**, Dr. Mier 2223, Nueva Laredo, Tam. **D.Prgr:** W 12.00–06.00, Sun 14.00–20.00. **V.** by letter – 113) **R. XECS**, Zaragoza y Allende, Manzanillo, Col – 114) **R. XEGB**, 3a Hidalgo 37, Coatzacoalcos, Ver – 115) **R. XEHK**, P. Moreno 315, Desp. 203–205, Guadalajara, Jal – 116) **R. Dif. XEOZ**, Paseja Enriques Local F, Jalapa, Ver – 117) **R. XEIQ**, Sinaloa 418 Sur, Ci. Obregon, Son. **L.P:** Dir: J. Corral R – 118) **R. XEKS**, A. Zaragoza Lado Nte, Saltillo, Coah – 119) **R Dif. XEROO**, La Voz de Quintana Roo, Chetumal, Quintana Roo.
120) **Mexican Broadc. Co**, Constitución 402, Ci. Juárez, Chih – 121) **R. El Callo**, Ca. Novena 95 entre Bravo y Bustamente, Matamoros, Tams – 122) **R. XEJC**, Apt. Postal 106, Apatzingan, Mich. **L.P:** Dir: M. Gomez A. **D.Prgr:** 11.55–04.00. **V.** by letter – 123) **R. Mérida**, Ca. 62 No. 526, Mérida, Yuc – 124) **R. XEOW**, L. Valle y Aquiles Serdan, Mazatlán, Sin – 125) **Univ. de Guanajuato**, Guanajuato, Gto 126) **R. Navojoa**, Morelos y Toledo, Navojoa, Son – 127) **R. XELC**, Av. Madero 116, La Piedad. **L.P:** Dir. Gen: H. Guizar C. **D.Prgr:** 12.30–05.00. **N:** 13.00, 03.00 – 128) **R. XENR**, Juárez 6, Altos, Nueva Rosita, Coah – 129) **Impulsora Moderna Del Radio**, Ca. Muelle y S. Diaz, Tampico, Tams. **L.P:** Dir. Gen: Dr. A. A. Cantú. **D.Prgr:** 12.00–06.00.
130) **Radiofónica de Nayarit**, Veracruz Nte 125, Tepic, Nay – 131) **El Pregonero del Norte**, 15 de Mayo Ote 650, Monterrey, NL. **L.P:** Pres: A. Garza. L. Gen. Mgr: Lic. L. Gutierrez N. **D.Prgr:** XET: 12.00–06.00, XEJM: 13.00–05.00. **N:** every half h – 132) **R. Ciudad Guzmán**, Artes 53 y 57, Ci. Guzmán, Jal – 133) **R. XECL**, Av. Madero 621, Mexicali, BC – 134) **R. Dif. XEHZ**, Carret Transpeninzular Km 5, La Paz, BC – 135) **R. Tropical**, Detrás Fortaleza Militar, Mtz. de la Torre, Ver – 136) **R. Dif. XEFV**, Maxtla 519, Ci. Juaréz, Chih – 137) **R. XEFM**, J. B. Lobos 51, Veracruz, Ver – 138) Sector Hidalgo, Ca. 10 No. 183, Guadalajara – 139) **R. XEDZ**, Ensenada, BC.
140) **R. Casas Grande**, Av. P. Diaz y Minerva 400, Nuevo Casa Grandes, Chih – 141) **Emisoras de Torreón**, Av. Juaréz 1465, Torreón, Coah – 142) **R. XEWS**, Rubi 57, Nte, Depto. 1, Culiacán, Sin – 143) **R. Dif. XEXL**, Portal Artega 2, Patzcuaro, Mich – 144) **R. XED**, Edif. Bertha, desp. 222, Mexicali, BC. **L.P:** Dir: L. Blando L. **D.Prgr:** 05.00–24.00 – 145) **La Voz de Norteamérica**, Hidalgo 426, Ote. Monterrey, NL. **D.Prgr:** 24 h. **English:** 00.30–12.00 – 146) **R. Tehuacán**, Av. Libertad 113-A, Tehuacán, Pue – 147) **R. Dif. XEIT**, Av. Ultimo Paseo y Ca. 43, Ci. del Carmen, Campeche – 148) **R. Impulsora de Occidente**, Av. 16 de Septiembre 520, Guadalajara, Jal – 149) **R. Juventud**, Edif. Loteria Nacional, Desp. 401, Veracruz, Ver.
150) **Interamericana de Radio**, Edif. Calif. desp. 2, Tijuana, BC – 151) **R. Laredo**, Matamoros y P. Suárez, Nuevo Laredo, Tams – 152) **R. Sistema del Bajio**, León, Gto – 153) **R. Dif. XEOQ**, Apt. Postal 301, Rio Bravo, Tams – 154) **R. XETR**, Laredo 29 Sur, Ci. Valles, S.L.P – 155) **Propulsora del Radio**, Madero y Venustiano Carranza, Monterrey, NL – 156) **R. Dif. XEBE**, Av. Hidalgo Pte. 309, San Pedro de las Colónias, Coah – 157) **R. Comercial de Baja California**, Ley de Alfabetizacion 257, Mexicali, BC – 158) **R. XEJS**, Colegio 14, Hidalgo del Parral, Chih – 159) **R. XERM**, Mexicali, 160) **La Voz de Zacatecas**, Miguel Auza 8, Zacatecas F – 161) **R. Favorita**, 16 de Septiembre 12, Coatepec, Ver – 162) **R. Televisora Siglo XX**, Apt. Postal 52, Reynosa, Tams – 163) **R. Carmen**, Av. Ultimo Paseo y Ca. 43, Ci. Carmen, Cam – 164) **R. XEFR**, Col. Viaducto, Piedad, Mexico, DF – 165) **R. Triunfo**, Villa de Guadalupe, NL – 166) **R. Dif. XEPZ**, Ci. Juarez, Chih – 167) **R. Dif. XEZI**, Apt. Postal 16, Zacapu, Mich. **L.P:** Dir: V. M. Lopéz R. **V**, by letter – 168) **R. Televisora de Tampico**, Diaz Miron 310, Tampico, Tams – 169) **R. Delicias**, Av. 4a y Ca. 4a Norte, Ci. Delicias, Chih.
170) **R. XEBQ**, Av. Serdan y Ca. 22, Guaymas, Son – 171) **R. XELD**, Cerret, Guadalajara-Barra de Navidad Km 189, Autlan de Navarro, Jal – 172) **R. XELM**, Tuxtla, Gutiérrez, Chis – 173) **R. Televisora del Bajio**, Edif. "Sears", León, Gto. **L.P:** Dir: L. A. Rivas – 174) **R. XEZX**, Tenosique, Tab – 175) **R. Televisora de Jalisco**, 16 de Septiembre 456, Guadalajara, Jal. **V.** by letter. Rp – 176) **R. XEDL**, Angel Flores 26, Ptes, Hermosillo, Son – 177) **R. Emis. Querétana**, Av. Zaragoza Pte. 15, Queretaro, Qro – 178) **R. XEPI**, Carretera Chilapa y Las Frondas, Tixtla, Gro. **L.P:** Dir. Gen: A. Peyron G. **D.Prgr:** 12.00–04.00 – 179) **R. Saltillo**, M. Acuna Sur 102, "C", Saltillo, Coah.
180) **R. Impulsora Herdez**, Av. Reforma 400, Desp. 701, México, DF. **D.Prgr:** 24 h. **English:** 13.00, 02.00, 04.00 – 181) **R. Linares**, Carretera Nacional México Laredo, Linares – 182) **R. XEMF**, Zaragoza 158, Monclova, Coah – 183) **R. Dif. XEOG**, Libertad 1302 altos, Chihuahua, Chih – 184) **R. XEAX**, Av. M. Garcia Vigil 5, Oaxaxa, Oax – 185) **R. Dif. XEMW**, Apt. Postal 1203, San Luis Rio Colorado, Son – 186) **R. XENY**, Campillo y Fenichio, Nogales, Son – 187) **R. XEPV**, Mina 1, Papantla de Olarte, Ver – 188) **Promotores de Radio**, Madero 15, Zacapu, Mich – 189) **R. XEAG**, Av. Uno 590, Córdoba.
190) **R. XEAW**, Parioutin 316, Monterrey, NL. **D.Prgr:** N: Every half h – 191) **R. Emis. del Norte**, Av. V. Carranza 514, Chihuahua, Chih – 192) **R. Campeche**, Esq. M. M. Aléman y B. Juárez, Campeche, Cam – 193) **R. XELK**, M. Lauza 10, Zacatecas, Zac – 194) **R. XEAP**, Sinaloa 206, Ci. Obregón, Son – 195) **R XEJL**, Independencia 27, Guamuchil, Sin – 196) **R. XEKW**, Lejarza 90, Morelia, Mich – 197) **R. XELE**, Muelle 304, Sur, Tampico, Tams – 198) **R. Dif. XESW**, Carret Madera, Ci. Madera, Chih – 199) **R. XEXW**, Obregón 51, Nogales.
200) **R. XEAM**, Carretera Matamoros, Victoria, Matamoros, Tams – 201) **La Voz de la Laguna**, Cepeda Sur 409, Torreón, Coah – 202) **R. XEFH**, Ca. 5a y Av. Panamericana, Agua Prieta, Son – 203) **R. XEHV**, Edif. Virginia, Desp. 4 y 5, Veracruz, Ver – 204) **Ondas Populares**, V. Carranza 4-A, San Luis Potosi – 205) **R. XETE**, Oriente 206-1, Tehuacán, Pue – 206) **R. Mazatlan**, M. Escobedo y B. Dominguez. Mazatlan, Sin – 207) **R. XEUH**, Tuxtepec, Oax – 208) **R. XEUI**, Hotel Los Lagos, Comitan, Chis – 209) **R. XEBO**, Morelos y 5 de Mayo, Irapuato, Gto.
210) **R. XEFC**, Ca. 64 No. 498, Merida, Yuc – 211) **R. XERP**, A. Obregón y 2 de Enero, Ci. Madero, Tams – 212) **R. XEWQ**, Hidalgo 229, Nte. Monclovia, Coah – 213) **R. XECW/XECU**, R. O. Castro y Allende 302, Los Mochis, Sin – 214) **La Voz de Delicias**, Av. Agricultura y Ca. 4a No. 605, Delicias, Chih – 215) **R. XEDKT**, L. Cotilla 769, Guadalajara, Jal – 216) **R. XEMA**, Av. Hidalgo 206, Fresnillo, Zac – 217) **R. XEOE**, Tapachula, Chis – 218) **R. XEOM**, Zaragoza y Corregidora, Coatzacoales, Ver – 219) **R. XELU**, 16 de Septiembre 511, Ci. Serdán, Pue.
220) **R. Laguna**, Apt. 225, Torreón, Coah. **D.Prgr:** 12.55–05.00. **V.** by letter – 221) **R. XETM**. Av. Fco. I. Madero 26, Naco, Son – 222) **R. XEY/XENC**, Tres Guerras 44, Celaya, Gto – 223) **R. XEDQ**, Constitucion 7, S. Anorés, Tuxtla, Ver – 224) **R. XEKF**, Altamirano 21, Iguala, Gro – 225) **R. XEOL**, Teziutlán, Pue – 226) **La Voz de Sinaloa**, M. Escobedo Pte 65, Culiacán, Sin – 227) **R. XEA**, Ca. 12 No 110, Campeche, Cam – 228) **R. Com. Sonorense**, Ca. Elias 10, Nogales, Son. **V.** by QSL-card – 229) **R. Dif. XEPA**, Ca. 7 Pte 102, Puebla, Pue.
230) **R. XEXL**, Lote 14, Colonia Morelos, Patzcuaro, Mich – 231) **R. XEGW**, 13 Hidalgo y Juárez, Ci. Victoria, Tams – 232) **R. XERK**, Av. México 224, Nte, Tepic, Nay – 233) **R. El Callo**, P.J. Mendéz 154 Ote, Reynosa, Tams. **L.P:** Gen. Mgr: R. Olivares S – 234) **R. XETL**, Av. Morelos 3, Tuxpan, Ver. **L.P:** Owner: C. A. Barron. **D.Prgr:** 12.00–05.00 – 235) **R. Dif. XEGD**, M. Herrera 79, Hidalgo del Parral, Chih – 236) **R. XEI**, Portal Hidalgo 213, Morelia, Mich – 237) **R. Tiempo**, Emilio Carranza 320, Ote, Tampico, Tams – 238) **R. XENG**, Moctezuma 2, Huauchinanga, Pue – 239) **R. XETY**, Cerro de Ortega, Tecoman. Col.
240) **R. XEVV**, Chiapa de Corzo, Chis – 241) **Universidad Veracruzana**, Domicilio Conocido, Jalapa, Ver – 242) **R. XEAS**, Mina 5037, Nuevo Laredo, Tams – 243) **La Voz del Valle del Fuerte**, Av. Obregón 581, Los Mochis, Sin. **L.P:** Dir: F. Pérez A – 244) **R. Televisora Tabascueña**, Av. Juárez 15, Villahermosa, Tal – 245) **R XEF**, Pasaje R. Corona 2, Ci. Juarez, Chih – 246) **R Monterrey**, 5 de Mayo 110, Monterrey, NL – 247) **R XEEW**, Edif. Card. Galván, Matamoros.
248) **R. Irapuato**, Apt. Postal 118, Irapuato, Gto. **L.P:** Dir: A. Contreras H. **D.Prgr:** 11.30–05.00 – 249) **R. Dif. XEWJ**, Reforma 205-C, Tehuacan, Puebla.
250) **R. XEXX**, Revolución y Octava, Tijuana, BC – 251) **R. Mexicanas**, Jardin Hidalgo 16, San Luis Potosi – 252) **R. Dif. XEIG**, Aladama 14, Iguala, Gro – 253) **R. XELL**, Av. Independencia 231, Veracruz, Ver – 254) **R. XELY**, Morelos Nte 68, Morelia, Mich.
255) **R. XEOX**, Veracruz 63 Sur, Ci. Obregón, Son. **XEHX:** N. Héroes 219, Ci. Obregón. **XENH** (Tr. at Escuinapa, Sin).
256) **R. Dif. XEWD**, Ca. Sexta 702, Ci. Miguel Aleman, Tams. **L.P:** Dir: M. Becerra G – 257) **R. XEGC**, Constitución 165, Sahuayo, Mich – 258) **R. XEXD**, Atlixco, Pue – 259) **R. XEJD**, 20 de Noviembre 54, Poza Rica, Ver.
260) **R. Regiomontana**, Ca. 15 de Mayo 650, Monterrey, NL – 261) **R. Emis. Querétana**, Av. Zaragoza Pte 15, Querétaro, Qro – 262) **La Voz de Orizaba**, Poniente 7 No. 57, Orizaba, Ver – 263) **R. XEVH**, Ca. Hidalgo, Villa Hermoso, Tams – 264) **R. XEJT**, D. Mirón 106, Tampico, Tams – 265) **R. XELX**, Av. Revolucion 194, Zitacuaro, Mich. – 266) **R. XEYC**. Av. 16 de Septiembre, Ci. Juárez, Chih – 267) **R. XEAU**, Apt. Postal 111, Tijuana, BC – 268) **R. Colima**, Apt. 147, Colima. **D.Prgr:** 13.00–01.00 – 269) **R. Dif. XEHI**, Ca. Séptime 105, Ci Miguel Aleman, Tams.
270) **R. Dif. Com. XESM**, Rebsaman 241, Col. Narvarte, Mexico, DF – 271) **R. XEND**, Colonia Nueva Vizcaya, Durango, Dgo – 272) **R. XEYA**, Irapuato, Gto – 273) **R. Dif. XEHM**, Ci. Delicias, Chih – 274) **Radiofónica de Poza Rica**, Ca. 6 Nte 2, Poza Rica – 275) **R. XEAL**, B. Dávalos 17, Mancanillo, Col – 276) **R. XEDR**, Av. Serdán 283, Altos, Guaymas, Son – 277) **R. Dif. XEED**, Granja "El Brillante" Ameca, Jal – 278) **R. Dif. XEFF**, J. de los Reyes 15, Matehuala, S.L.P – 279) **R. Zamora**, 5 de Mayo Sur, Zamora, Mich. **L.P:** Dir: M. A. Sánchez – 280) see 285.
281) **R. Torreón**, A. Norte con N. Mendoza, Torreón, Coah.
282) **R. XEVZ**, Enriques 18, Acayucan, Ver – 283) **R. XEMS**, Ca. Abasolo 62, Matamoros, Tams – 284) **R. Dif. XESD** Bucareli 109, Mexico, D.F – 285) **R. XEBG**, Av. "C" 225, Altos, Tijuana, BC – 286) **R. XENU**, Av. Madero 2201, altos, Nuevo Laredo, Tams – 287) **R. XEZL**, Pasaje Revolución Local 5, Jalapa, Ver – 288) **R. XERMK**, Ci. Satelite, Est. de Mexico – 289) **R. XERX**, Morelos 104, Salamanca, Gto.
290) **Cia R. Dif. de Coahuila**, Camino a San Carlos, Ci. Acuña, Coah –

291) **R. Pacifico**, Matamoros, Hermosillo – 292) **La Voz del Sur**, Km 213, Carretera México-Acapulco, Chilpancingo, Gro – 293) **R. Tulancingo**, Av. Juárez Sur 200-3, Tulancingo, Hgo – 294) **R. XEQL**, Apt. Postal 40, Zamora, Mich – 295) **La Voz de Meoqui**, Av. 6a Nte. 402, Ci. Delicias, Chih – 296) **Promotriz Radiofónica**, Av. 16 de Septiembre 130, Guadalajara, Jal – 297) **R. XEAE**, Guerrero y Ocampo 450, Ci. Acuña, Coah.

NETHERLANDS ANTILLES

L.T: GMT–4 h – **Pr.L:** Papiamento, Dutch, English, Spanish, French, Portuguese.

CURACAO

GOVERNMENT RADIO & TELEGRAPH ADMINISTRATION
ADDR: P.O. Box 103, Curaçao. **Te:** 11500. **Cable:** "Gentel" – **L.P:** Ag. Dir: O. L. Labega.

RADIO CUROM (Foundation: "Curacaosche R. Vereeniging" – non profit foundation).
FI: by adv and donations of members – **ADDR:** P.O. Box 31, Willemstad, Curacao. **Te:** 12555. **Cable:** Curaver.
L.P: Pres: C. G. Grootens. St. Mgr: L. C. H. M. Bergman. Dir. Tec: G. V. Lotman.
STATION (System: RCA): PJC-2 855kc 5kW.
HOME SCE: W 10.30–03.00. Sun 13.00–17.00, 20.00–03.00
Dutch: 10.30–20.00 (Sun 13.00–17.00), 22.30–03.00. **N:** 11.00, 12.00, 14.30*, 16.30, 22.30**, 23.00, 02.00 – **Papiamento:** 20.00–22.30 (Sun 20.00–21.00). **N:** 16.00, 22.00 – * exc. Sat, ** Sun only.
ANN: "This is R. Curom in Willemstad, Curacao Neth. Antilles". Dutch: "Hier is de Curom te Willemstad op Curacao op een frequentie van 855 kc perioden per sec. dat is 350.08 meter". Papiamento: "Aki ta Curom na Willemstad Corsouw riba su freq. di 855kp. por sec. igual na 350.08 meter" – **INT-SIG:** Part of the Curom-march, played by a big band – **V.** by letter. Rp.

RADIO HOYER (Cultural, Comm.)
FI: R. Hoyer 1 and 3 by adv. Hoyer 2 on cultural basis.
ADDR: Julianaplain 21, Willemstad. **Te:** 11673. **Cable:** Radioyer.
L.P: Dir. Gen: H. E. Hoyer.
STATIONS: PJC7 1010kc 1kW – PJC2 1500kc 1kW.
HOME SCE: W 09.30–04.30, Sun 12.30–03.30.
Spanish Papiamento on 1010kc, Dutch/English on 1500kc.
ANN: English: "This is station PJC7 R. Hoyer transmitting on..." – **V.** by QSL-card.

RADIO CARIBE (Comm.)
ADDR: Nieuwestraat 22B, Willemstad. **Te:** 12801. **Cable:** R. Caribe – **L.P:** Dir. Gen: C. R. Heillegger. Dir. Tec: G. A. T. Heillegger.
STATION: PJL3 1230kc 0.25kW – 1540kc 1kW.
HOME SCE: 10.00(Sun 12.00)–04.00 – **W: Papiamento:** 10.00–17.00, 19.00–22.00, 01.00–04.00. **N:** 16.15–17.00 – **Spanish:** 17.00–19.00, 22.00–01.00. **N:** 17.00, 18.00(VOA), 22.00, 00.15 – **Sun: English** (rlg. prgr's): 12.00–14.00, 22.00–23.00 – **Papiamento:** 14.00–17.00, 18.30–22.00, 23.00–04.00 – **Spanish:** 17.00–18.30 (Port music with ann i Sp.) – **N:** 18.15 – **V.** by letter. Recordings accepted.

ARUBA

RADIO KELKBOOM (Comm.)
ADDR: P.O. Box 146, Oranjestad. **Cable:** Kelkboom. **Te:** 1899 – **L.P:** Mgr: C. A. Kelkboom.
STATION (System: Gates): PJA5 1435kc 1kW.
HOME SCE: 11.00 (Sun 14.00)–02.00. – **Papiamento: N:** 11.30 12.30, 14.00, 15.00, 16.15, 16.45, 20.30, 22.00 – **Spanish:** Tues, Sat 00.15–00.45 – **Dutch:** Sun: 14.30–15.00, 16.30–17.00, 20.00–20.30, 23.45–24.00, Tues: 18.30–19.00, Wed: 01.15–01.45 – **ANN: Dutch:** "Hier PJA-5 R. Kelkboom te Oranjestad Aruba". **E:** "This is PJA-5 R. Kelkboom at Oranjestad Aruba". Papiamento: "Ta transmiti R. Kelkboom PJA-5 na Oranjestad, Aruba" – **V.** by QSL-card. Rp.

RADIO VICTORIA (Sponsored and owned by the Evangelical Alliance Mission – Team) – **FI:** By comm. adv and free will offerings – **ADDR:** Oranjestad. **Te:** 7090. **Cable:** Team.
L.P: Mgr: Rev. P. J. Pietsch. Dir. Tec: R. Mitchell.
STATION (System: Gates): 900kc 10kW.
HOME SCE: W 10.30–02.30, Sun 11.30–01.30.
English: 17.00–19.15, 22.00–01.00. **N:** 14.30, 17.00, 22.30 – **Dutch:** 01.00–02.30. **N:** 01.00 – **Papiamento & Spanish:** 10.30–17.00, 19.15–22.00. **N:** 11.00, 13.00, 13.30, 16.30, 20.45, 21.15, 22.30 – **ANN: E:** "This is R. Victoria the Cultural Voice of the Caribbean". Sp: "Transmite R. Victoria, La Voz Cultural del Caribe" – **V.** by letter. Rp. Recordings accepted.

Where to obtain the WRTH: see page 303

RADIO ANTILIANA (Comm.)
ADDR: P.O. Box 28, St. Nicolaas. **Te:** 5602 – **L.P:** Dir. Gen: E. J. Prins. Gen. Mgr: H. E. A. Booy. Dir. Tec: H. Nirop.
STATION (System: Philips): PJA8 775kc 1kW.
HOME SCE. in Papiamento, English, Dutch: W 10.00–04.30. Sun 11.30–04.30 – **N(W): English:** 10.40, 11.40, 14.40, 16.35, 17.00. **Papiamento:** 11.00, 12.00, 13.30, 16.50, 17.30, 21.30, 23.00 – **ANN: E:** "This is st. PJA8, R. Antiliana, transmitting on a freq. of 775kc, which equals a wavelength of 388m, from studios located at Lago Heights, San Nicolaas, Aruba, Isle of progress in the NA" – **V.** by letter. Recordings accepted.

VOICE OF ARUBA (Comm.)
ADDR: Van Leeuwenhoekstraat 12, Oranjestad.
L.P: Dir: A. M. Arends Jr. Dir. Tec: D. Odor.
STATION: PJA-10 1325kc 1kW.
HOME SCE. in Dutch, English, Spanish: 10.30(Sun 12.30)–02.30. **ANN:** "You are tuned to Station PJA-10 – The Voice of Aruba" – **INT-SIG:** 4 strokes on a 4 metal bar percussion instrument – **V.** by QSL-card or letter.

BONAIRE

TRANS WORLD RADIO (Cultural, Educational, Religious)
FI: Voluntary contributions from individuals, organisations, foundations, churches).
ADDR: Trans World Radio, 5C Zoutpannenweg, Bonaire. **Te:** 8471. **Cable:** Votan.
L.P: Pres: Dr. P. E. Freed. Dir. Gen: R. Freed. St. Mgr: W. P. Mial. Dir. Tec: R. Kennedy, R. E. Schultz.
STATIONS (System: Continental Electronics): 800kc 375m 500kW – **Shortwaves:** One tr 50kW, one tr. 260kW.

kc	m	kc	m	kc	m
6170	48.62	9710	30.90	15170	19.78
6175	48.58	11820	25.38	15220	19.71
9590	31.28	11955	25.09	15245	19.68
9605	31.23			15270	19.65

D.Prgrs: On 800kc: 09.30–12.35(Sun 15.30), 21.45–23.30, 01.30–04.00 (Sun 04.30).
English: 11.00–12.35(Sun 15.30), 02.00–04.00(Sun 04.30). **N:** 12.30 (Sun) – **Spanish:** 09.30–11.00, 22.15–23.00, 01.30–02.00 – **French:** 22.00–22.15 – **Dutch:** 21.45–22.00(Sun) – **Portuguese:** 23.00–23.30 – **German:** 23.00–23.15 (Wed, Thurs only).
N: English: 11.00, 12.30, 03.30. **Spanish:** 09.30, 22.25.

Christ to the World in 24 languages

Trans World Radio

Paul E. Freed, Ph. D.
PRESIDENT

MONTE CARLO
MONACO

BONAIRE
NETH. ANTILLES

Short Wave Schedule:
I=So. America; II=No. America; III–Ce. America; IV=Mid East; V=Europe.
Transmitter I (50kW): 09.30–12.35(Sun 15.30), 18.30–06.00.
Arabic, Armenian: 04.35–04.50(IV) on 6175kc, 18.30–18.45(IV) on 15245kc – **Ea. European Languages:** 05.00–05.15(V) on 11955kc, 20.00–20.15(V) on 15245kc – **English:** 02.30–04.00(II) on 11820kc, 11.05–12.35 (Sun 15.30) (II) on 11820kc, 21.15–21.45(V) on 15245kc – **French:** 05.40–05.55(V) on 11955kc, 20.15–20.30(V) on 15245kc, 22.00–22.15(V) on 15245kc – **German:** 05.15–05.40(V) on 11955kc, 19.25–19.50(V) on 15245kc, 20.35–21.00(V) on 15245kc – **Portuguese:** 00.30–01.00(I) on 15170kc, 09.30–10.00(I) on 9710kc, 21.45–22.00(V) on 15245kc, 23.00–23.30(I) on 9605kc – **Russian:** 01.00–01.30(I) on 15170kc, 04.00–04.30 (V) on 6175kc, 18.45–19.15(V) on 15245kc – **Spanish:** 10.00–11.00(I) on 9710kc, 21.00–21.15(V) on 15245kc, 22.25–23.00(I) on 9605kc, 23.30–00.25(III) on 9605kc, 01.30–02.25(I) on 15170kc.
Transmitter II (260kW): 05.00–05.55, 18.30–19.50, 23.30–01.20.
Arabic, Armenian: 18.30–18.45(IV) on 15245kc – **Ea. European Languages:** 05.00–05.15(V) on 6170kc – **English:** 00.35–01.05(II) on 11820kc – **French:** 01.05–01.20(II) on 11820kc, 05.40–05.55(V) on 6170kc – **German:** 05.15–05.40(V) on 6170kc, 19.25–19.50(V) on 15245kc, 23.30–23.55(I) on 15270kc – **Portuguese:** 23.55–00.10(I) on 15270kc – **Russian:** 18.45–19.15(V) on 15245kc – **Spanish:** 00.10–00.25(I) on 15270kc.
NEWS: Spanish: 09.30(mw), 22.25(mw+tr I), 00.20(tr. I); **English:** 11.00(mw), 12.30(mw+tr. I), 03.30(mw+tr. I).
ANN: "This is the international sound of the Caribbean, Trans World Radio, Bonaire" – **V.** by QSL-card. Rp. preferred.
IRC's replied by airmail, all other correspondence by surface mail Re. in E & Sp, no tapes – **PUB:** Prgr. schedule free.

THE VOICE OF BONAIRE (Comm.)
ADDR. & L.P: See Hoyer – **STATION:** PJB2 1385kc 1kW.
HOME SCE: W 11.30–18.30, 22.30–02.30, Sun 14.30–17.30, 22.30–02.30.

ST. MAARTEN

THE VOICE OF SINT MAARTEN (Comm.)
ADDR: P.O. Box 175, St. Maarten. **Te:** 2373 – **L.P:** Dir: N. C. Wathey. Gen. Mgr: R. A. Mayer.
STATION: PJD2 1295kc 5kW – **HOME SCE:** 09.00–02.00.
ANN: "This is the Voice of Sint Maarten, R. St. PJD2 transmitting on an assigned freq. of 1295kc, the Gospel Voice of the Eastern Caribbean, proclaiming Jesus Deliverance to you and yours, from the Island of St. Maarten, NA, the beach island of the Caribbean" – **V.** by QSL-card – **F.PL:** 10kW.

NICARAGUA

L.T: GMT–6 h – **Pr.L:** Spanish.
JEFATURA DEL RADIO NACIONAL, Apt. 209, Managua.
STATIONS: All st's comm. exc. 17) (Gov), 12) (Cultural), 22) (Rel.)
Short Waves: Call: YN---. * inactive.

Call	kc	m	kW	Name and h of tr.	
1) RG	5955	50.38	0.5	R. Zelaya, Bluefields	
2) WW	*5965	50.29	0.5	R. Sport[2], Granada	
3) WA	5965	50.29	0.5	R. Mundial[1], Managua:	11.00–05.30
4) X	*6025	49.79	5	R. Equis, Managua	
5) DN	6040	49.67	0.5	R. City, Managua:	12.00–06.00
6) EQ	6065	49.46	0.6	R. Universal, Managua:	12.00–04.00
7) HC	6100	49.18	0.5	R. Hernandez Cordoba, Ocotal	
8) CA	6120	49.02	0.5	R. Atlantica, Bluefields	
9) P	6130	48.94	1.5	R. Circuito, León	
10) MV	6150	48.78	1	R. Continental, Managua	
11) UW	6190	48.47	0.5	R. Dario[2], León	
12) JM	6200	48.39	1	R. Norte Somoto	

Medium Waves: Call: YN---. °=Short Waves.

Call	kc	kW	Call	kc	kW	Call	kc	kW
13) –	560		25) LU	965	1	38) DM	1340	0.5
14) RR	570	3.5	26) CR	980	0.25	39) GF	1360	0.25
15) BO	575	1	27) DN	1000	3	4) X	1370	1
16) RD	590	3[2]	3) W3	1025	1[1]	4) X	1400	1
17) M	620	10	28) LL	1050	0.25[2]	4) X	1420	1
2) XW	°650	1[1 2]	29) TW	1070	0.19	40) MS	1440	0.15
18) D	675	15	30) RM	1090	1	41) DN	1450	1
19) SC	700	1	31) Q	1100	0.75	42) TJ	1460	0.3
20) S	725	1	9) L	°1115	1	43) AG	1475	2
4) X	°750	10	32) RC	1130	10	44) PT	1500	0.5
3) W2	775	1[1]	33) BC	1150	1[2]	45) CZ	1515	1
21) R	800	1	11) UW	°1170	0.375[2]	9) P	1530	0.5
22) OL	825	15	34) C	1200	0.5	46) RP	1575	2
23) MV	850	10	35) CW	1240	1[2]	47) –	1560	0.5
3)W1	875	1[1]	36) WX	1270	2.5	48) D	1580	2.8
24)WS	900	5	37) RA	1300	0.37	49) JG	1590	0.5
3)W	°930	10[1]	9) HI	1310	2			

[1] R. Mundial Nicaraguan Network – [2] R. Sport Network.

Short Waves:
1) Bluefields – 2) Granada.
3) Cadena Nicaragüense de Radiodifusion, 5a Av. N.O. 703, Managua. **Te:** 3851 – **L.P:** Dir. Gen: J. Cesar Sandoval. Dir. Tec: F. Arana V. Dir. Foreign Rel: F. Icaza Diaz. **D.Prgr: N:** 12.45, 18.00, 19.30. **Ann:** "Cadena Nicaragüense de Radiodifusion desde R. Mundial... en Managua" – **Int-Sig:** Gong – **V.** by letter. Recordings accepted. **F.PL:** TV.
4) Apt. 1505, Managua. **Te:** 5404. **Cable:** Tevenic. **L.P:** Dir. Gen: R. O. Cano. Dir. Tec: J. María C. Dir. Foreign Rel: Sra. Marta Cansino. **D.Prgr:** 12.00–06.00. **N:** 12.30, 19.15. **Ann:** "Estacion "X", desde Managua, Nicaragua, en Centroamérica, Estacion "X" 750kc Onda Larga – **V.** by QSL-card. Re. in Sp. Relay st's: Esteli (1370kc), Juigalpa (1400kc), Chicigalpa (1420kc).
5) Managua – 6) Apt. 338, Managua – 7) Ocotal – 8) Bluefields – 9) León – 10) Managua – 11) León – 12) Somoto.

Medium Waves:
13) **R. Corporacion,** Managua – 14) **R. Reforma,** Managua – 15) **R. Musical,** Massaya – 16) **R. Quinientosnoventa,** Managua – 17) **Radiodif. Nacional,** Edif. Benard, Managua. **Ann:** "Paz, Libertad, Progreso, transmite R. dif. Nacional de Nicaragua". **V.** by letter. Rp. 18) **Union Radio,** Apt, 1148, Managua. **Ann:** "Union R. La Onda Musical y Deportiva 675kc, Managua de la Cadena Inter-Americana WRUL de New York". **V.** by QSL-card and letter. **Pub:** Prgr. sched. free on request.
19) **R. Centauro,** Managua – 20) **R. Tic Tac,** Chinandega – 21) **R. Reloj,** Managua.
22) **Ondas de Luz,** Apt. Postal 607, Managua. **D.N. L.P:** Dir: F. M. Doña. **D.Prgr: Sp:** 12.00–03.00. **E:** 03.00–04.00. **N:** 01.00, 04.00, 18.00. **Ann:** Sp: "En sintonía con R. Ondas de Luz", única emisora en el pais sin anuncios comerciales con su lema "Orientando su camino con la luz de la Verdad". E: "You are in tune with the radio voice of YNOL "Waves of Lights", from Managua, the beautiful land of lakes and volcanos". **V.** by QSL-card or letter.
23) **R. Continental,** Av. Este 1200, Managua – 24) **R. Alma** Nica, Managua – 25) **R. Managua,** Managua – 26) **R. Mongalo,** Rivas – 27) **R. Mil,** Managua – 28) **R. Massaya,** Masaya – 29) **R. Centro,** Granada – 30) **R. Musun,** Matagalpa – 31) **La Voz de la Victoria,** Managua.
32) **R. Católica de Nicaragua,** Apt. 1130, Managua. **D.N. Ann:** "Por Cristo y por su Iglesia, transmite YNRC, R. Católica de Nicaragua". **V.** by letter.
33) **La Voz de la Segovia,** Esteli – 34) **R. Capital,** Managua – 35) **R. Occidental,** Chinandega – 36) **R. Atenas,** León – 37) **La Voz de Chinandega,** Chinandega – 38) **Ondas Sonores,** Managua – 39) **Ondas del Sur,** Jinotepe. **D.Prgr:** 12.00–04.00 – 40) **Ondas Populares,** León – 41) **R. City,** Managua – 42) **El Eco de las Brumas,** Jinotega – 43) **R. Cosiguina,** Chinandega – 44) **Tierra Pinolera,** Managua – 45) **R. Progreso,** León – 46) **R. Granada,** Granada – 47) **Ondas del Xolatlan,** Managua – 48) **R. Uno,** Managua – 49) **R. Colinas,** Jinotega.

PANAMA

L.T: GMT–5 h – **Pr.L:** Spanish.
GOVT. DEPT. JURISDICTION
ADDR: Direccion Tecnica de Radiocomunicaciones, Ministerio de Gobierno y Justica, Apt. 3422, Panama. **Cable:** Dirgentel Radio – **L.P:** Tec. Dir: Eng. F. A. Lamparero.

ASOCIACION PANAMEÑA DE RADIODIFUSIÓN
ADDR: Apt. 7387, Panama – **L.P:** Pres: J. E. Sitton.
STATIONS: C=Circuito. *=currently inactive.
All st's comm. exc. 10) (Rlg), 19) (Cultural & Rlg), 20) (Mil).

Short Waves:

Call	kc	m	kW	Name and h of tr.
1) HOM50	5995	50.04	1	C.R.P.C., Panama: 11.55–05.00
2) HP5B	*6030	49.75	0.25	R. Cadena Miramar, Panama
3) HOU31	6045	49.63	1	La Voz del Baru, David: 11.00–04.00
4) HOLA	*9505	31.56	0.25	R. Atlantico, Colon
5) HP6J	*9607	31.23	0.5	La Voz de Panama
1) HOF31	9685	30.98	1	Onda Popular, Panama: 11.55–05.00

Medium Waves: Call: HO---. °=Short Waves.

Call	kc	kW	Call	kc	kW
6) U23	540	0.25	12) A	700	1
7) N31	550	1	2) HP5C	°730	1
1) H2	560	0.25	13) XO	760	5
1) H3	590	1	14) ACA20	790	5
1) HM	610	10	1) F33	810	1
8) K	640	0.25	15) G	830	0.25
9) S22	°645	1	7) N32	840	10
1) H4	660	1	16) HO	870	1
10) LY	670	1	17) R34	890	1
11) F32	680	0.5	18) HA	900	0.5

	Call	kc	kW		Call	kc	kW
9)	S56	920	1	12)	W	1230	0.25
19)	X	940	0.5	32)	M56	1240	1
20)	B33	950	1	33)	Q	1250	0.25
1)	F	°965	3	34)	J22	1270	0.5
21)	R59	990	1	35)	JU	1280	0.25
22)	U44	1015	1	11)	S23	1295	1
1)	F2	1020	0.25	4)	K3	1310	0.25
3)	U	°1025	1	36)	L55	1315	1
23)	S21	1035	1	28)	M92	1330	0.25
24)	J2	1045	1	5)	HP6J	°1380	0.25
5)	HPM21	1060	1	4)	L	*1390	0.25
25)	D21	1070	0.25	37)	HS	1400	1
15)	G2	1090	0.25	38)	RS	1410	0.5
26)	R58	1100	0.25	14)	ACB20	1420	1
1)	F47	1120	1	8)	C	1440	0.25
27)	J	1130	1	39)	D42	1460	0.25
28)	B49	1140	1	40)	OH	1470	1
29)	S25	1150	0.25	42)	R43	1490	0.25
17)	NZ	1170	0.25	41)	N	1500	1
30)	OC	1180	1	43)	A95	1505	1
31)	E91	1210	4				

Short Waves:
1) Apt, 1795, Panama. **Te:** 5-0160. **Cable:** Erepece. **C.R.P.C:** HOH2 Colon, HOH3 Chitre, HOHM Panama, HOH4 David. **D.Prgr:** N: 11.30, 15.30, 18.00, 23.00. **Onda Popular:** HOF33 Bocas del Toro. HOS47 Darien, HOF Panama, HOF2 Colon. **Ann:** "Onda Popular". V. by QSL-card. Re. in Sp. or E.
2) Apt. 1214, Panama. **Te:** 30239. V. by QSL-card.
3) Apt. 160, David.
4) Apt. 44, Colon. HOK3: **La Onda de la Alegria.** V. by QSL-card.
5) HP5J/HP6J: Apt. 867, Panama. HPM21: **La Voz de Ancon,** Av. Central 169, Panama. **L.P:** Pres: M. Diaz Doce. Gen. Mgr: J. G. Diaz J. **Ann:** "Desde Panama Puente del Mundo Corazon del Universo Transmite La Voz de Panama decana de las Emisoras Nacionales Compruebe su tiempo". V. by letter.

Medium Waves:
6) **R. Zarati,** Apt. 5661, Penonome – 7) **R. Aeropuerto,** Apt. 4824, Panama – 8) **Cadena Panameña de Radiodif,** Apt. 33, Colon – 9) **R. Mia,** Apt. 5117, Panama. **D.Prgr:** 10.00–04.30.
10) **R. Hogar,** Apt. 1979, Panama. **Te:** 3-5425. **Ann:** "R. Hogar, una emisora al servicio de la paz y la verdad". V. by letter. Re. in Sp. E.
11) **R. Centenario,** Apt. 3, Puerto Armuelles – 12) **La Voz de Panama,** Apt. 1121, Panama.
13) **La Voz del Istmo,** Apt. 3269, Panama. **L.P:** Dir. Gen: R. Lay. Dir. Tec: C. Perez. **D.Prgr:** 10.45–04.15. **English:** 11.15–13.30, 01.15–03.00. Other times in Spanish. **N:** E 12.00, Sp 11.00, 13.30, 17.00, 23.00, 04.00. **Ann:** E: "This is HOXO, the Voice of the Isthmus, 760kc in Panama". Sp: "Esta es La Voz del Istmo, 760kc en Panamá, HOXO". V. by QSL-card.
14) **Southern Command Network (AFRTS),** Ft. Clayton, Canal Zone.
15) **Estacion de la Communidad,** Apt. 1121, Panama – 16) **R. Musical,** Apt. 355, Panama – 17) **Ondas Istmenas,** Apt. 3237, Panama – 18) **La Voz del Pueblo,** Apt. 1045, Panama – 19) Panama.
20) **R. Cultura,** Apt. 249, Concepcion – 21) **R. Leblanc,** Panama – 22) **R. Reloj,** Apt. 5124, Panama – 23) **Victor Miranda,** Panama – 24) **Ondas del Canajagua,** Apt. 10, Las Tablas. **L.P:** Gen. Mgr: S. Villareal Jr. **D.Prgr:** 24 h. V. by letter.
25) **Ondas del Caribe,** Av. Melendez y Roosevelt 8044, Colon – 26) **R. Mil Cien,** Apt. 1100, Panama – 27) **R. Provincias,** Apt. 1174, Chitré – 28) **Cadena Universal,** Panama – 29) **R. Mia de Colon** – 30) **C. de Ondas Chiricanas,** Apt. 172, Panama – 31) **R. El Mundo,** Apt. 1566, Panama – 32) **R. David,** Apt. 328, David – 33) **R. Nacional,** Apt. 552, Panama.
34) **Radio la Tribuna** – 35) **La Voz del Vigia,** Aguadulce – 36) **R. Reforma,** Apt. 1201, Chitre. V. by QSL-card and letter.
37) **Ondas Centrales,** Santiago – 38) **R. Selecta,** Apt. 4369, Panama – 39) **La Voz de Almirante,** Ca. 6a y Av. N, Almirante – 40) **R. Independiente,** Apt. 4545, Panama – 41) **La Voz de la Victor,** Apt. 33, Colon – 42) **R. Exito,** Chorrera – 43) **R. Variedades,** Panama.

PUERTO RICO (U.S. Territory)

L.T: GMT–4 h – **Pr.L:** Spanish, English.

BROADCASTERS ASSOCIATION OF PUERTO RICO

ADDR: P.O. Box 10144, Santurce.

STATIONS: All st's comm. exc. 13) – [1]=also FM.

	Call	kc	kW		Call	kc	kW		Call	kc	kW
1)	WPAB	550[1]	5/1	6)	WKJB	710	1	11)	WHOA	870	5
2)	WKAQ	580[1]	5	7)	WIAC	740	10	12)	WPRP	9105/0.5	
3)	WAEL	600	1	8)	WORA	760	5	13)	WIPR	940[1]	10
4)	WKYN	630	1	9)	WKVM	810	25	14)	WPRA	990	1
5)	WAPA	680	10	10)	WABA	850	0.5	15)	WMIA	1070	0.5
16)	WLEY	1080	0.25	24)	WTIL	1300	1	32)	WFBA	1460	0.5
17)	WRJS	1090	0.25	25)	WUNO	1320	5/1	33)	WMDD	1480	5
18)	WVJP	1110	0.25	26)	WUNA	1340	0.25	34)	WMNT	1500	1/
19)	WITA	1140[1]	0.5	27)	WIVV	1370	1				0.25
16)	WLEO	1170	0.25	28)	WISA	1390	1	35)	WRAI	1520	0.25
20)	WNIK	1230	1	29)	WVOZ	1400	0.25	36)	WUPR	1530	1
21)	WALO	1240	1	30)	WEUC	1420	1	16)	WKFE	1550	0.25
22)	WISO	1260	1	31)	WNEL	1430	5/	37)	WRSJ	1560	5
23)	WCMN	1280	5/1				0.5	38)	WXRF	1590	1

D.PRGR: 10.00 to approx. 04.00 exc where indicated.
1) **Puertorican American Broadc. Co,** P.O. Box 786, Poncé. **D.Prgr:** 10.00–03.00 in Spanish. **N. in English:** 10.30, 22.30.
2) **El Mundo Broadc. Corp,** 654 Poncé de Leon Av, San Juan. **D.Prgr:** 10.00–03.15 in Spanish.
3) **R. WAEL,** Box 297, Mayaguez – 4) **Quality Broadc. Corp,** San Juan.
5) **La Voz del Caribe,** Box 4563, San Juan. **D.Prgr:** 09.09–04.00 in Spanish – 6) **R. WKJB,** Box 1293, Mayaguez.
7) **R. WIAC,** 261 Poncé de Leon Av. San Juan.
8) **R. Americas Corp,** Box 43, Mayaguez. **D.Prgr:** 10.00–02.00.
9) **American Colonial Broadc. Corp,** Box 4189, San Juan – 10) **R. WABA,** Box 188, Aguadilla.
11) **Continental Broadc. Corp,** 566 Poncé de Leon Av, San Juan. **D.Prgr:** 10.00–04.55(Sat 05.55), Sun 11.30–04.58.
12) **Voice of Puerto Rico,** Box 430, Poncé.
13) **Dept. of Education of P.R,** P.O. Box 909, San Juan. **D.Prgr:** 11.00 (Sun 12.00)–02.15. **N:** 14.00, 16.00, 19.00, 22.00. **Ann:** "These are r.st's. WIPR and WIPR-FM in San Juan, Puerto Rico". V. by QSL-card – 14) **R. WPRA,** Box 869, Mayaguez. **D.Prgr:** 24 h.
15) **Abacoa R. Corp,** Barrio San Daniel, Insular rd 2, Arecibo. **L.P:** Mgr: C. M. Pirallo. **D.Prgr:** 09.30–04.00.
16) **Poncé Broadc. Corp,** Box 1526, Poncé. **D.Prgr:** 09.00–05.00, WLEY(Cavey) & WKFE(Yauco): 10.00–02.00.
17) **R. Station WRSJ,** San German – 18) **R. Caguas,** Box 207, Caguas. **D.Prgr:** 12.00–03.00.
19) **Electronic Enterprises Inc,** Box 2792, San Juan. **D.Prgr:** 04.00–16.00
20) **Arecibo R. Corp,** Box 1075, Arecibo. **D.Prgr:** 10.00–03.00. V. by letter. Rp.
21) **R. WALO,** Desengano Str. Humacao – 22) **South P.R. Broadc. Corp,** Box 2023, Poncé. V. by letter.
23) **Caribbean Broadc. Corp,** Box 7, Arecibo.
24) **Mayaguez R. Corp,** Box 1346, Mayaguez. **D.Prgr:** 24 h.
25) **San Juan Broadc. Corp,** Box Q, Hato Rey – 26) **Jaicoa Broadc. Corp,** Box 863, Aguadilla. **D.Prgr:** 10.00–03.00.
27) **Calvary Baptist Mission of P.R,** Box 1904, Hato Rey. **L.P:** Dir. Gen: D. Luttrell. Dir. Tec: W. T. Forrester. Dir. Prgr: Ruth Luttrell. **D.Prgr:** 09.25–01.40. **N. in English:** 11.45, 17.00, 23.00. **Mbg:** 19.00–21.00. V. by letter. Re to Viques Island, P.R. **PUB:** WIVV R. News
28) **R. Station WISA,** Isabela. **D.Prgr:** 10.00 03.00. V. by letter.
29) **R. Voz,** Carolina – 30) **Catholic University of Puerto Rico,** Service Assn. Campus, Poncé.
31) **Atlantic Broadc. Corp,** Box 487, Caguas. **D.Prgr:** 24 h. **N:** Every h on the h – 32) **Petmo Broadcasters,** San Sebastian.
33) **La Voz del Oriente,** Box 387, Fajardo. **D.Prgr:** 11.00–03.00. V. by QSL-card.
34) **Aracibo Broadc. Corp,** Manati – 35) **R. Aeropuerto International,** San Juan – 36) **Central Broadc. Corp,** Utuado.
37) **R. San Juan,** P.O. Box 5627, San Juan. **D.Prgr:** 09.30–05.00.
38) **R. Guyama,** Hostos 42-N, Guayama. **D.Prgr:** 10.30–03.00. V. by QSL-card.

ARMED FORCES RADIO & TV SCE: see USA.

SWAN ISLAND

L.T: GMT–6 h – **Pr.L:** Spanish.

RADIO AMERICAS (Comm.)

ADDR: P.O. Box 352, Miami 1, Fla, USA. **Te:** 444–8287 – **L.P:** Pres: H. Roosevelt. St. Mgr. & Dir. Tec: S. Clark.
STATIONS: 1160kc 257.5m 50kW – 6000kc 50.00m 7.5kW.
D.PRGR'S in Spanish: 10.00–13.30, 22.00–07.00 – **N:** 10.55, 11.55, 12.45, 22.55, 23.55, 00.55, 01.55, 03.55, 04.45, 05.25, 05.55, 06.25, 06.45 – **ANN:** Sp: "Esta es R. Americas, La Voz de la Verdad para todo el Continente" – **INT-SIG:** First six notes of "America Immortal lyre" – V. by QSL-card. Rp. appreciated. Ribbons to those reporting the musical prgr's and voting for numbers for Hit Parade prgr's.

TRINIDAD & TOBAGO

L.T: GMT–4 h – **Pr.L:** English.

RADIO TRINIDAD (Comm.)

FI: By adv. and licenses – **AD:** 10 min's per h. **ADDR:** Broadc. House, 11B, Maraval Rd, Port-of-Spain. **Cable:** Broadcast. **Te:** 21151 – **L.P:** St. Mgr: P. E. M. Hesketh. Dir. Tec: E. R. McDowell. Dir. Prgr: Mrs. J. Gonsalves.

STATIONS (System: Redifon 2 × 10kW tr's): 730kc 410m 20kW – FM: 95.1Mc 1kW.
HOME SCE. in English: D 10.00–03.15 * incl. Wrp. N: 10.00. 10.45, 11.00*, 12.00, 13.00*, 14.00, 15.00, 16.00*, 16.30, 17.00, 18.00*, 19.00, 20.00*, 21.00, 22.00, 23.00, 23.45, 01.45, 02.00*, 02.15, 03.00* – **ANN:** "This is R. Trinidad, first with the news" – **V.** by letter. Recordings accepted.

RADIO GUARDIAN (Comm.)
AD: 10 min per h exc. during 90 min. reserved for Gov. use.
ADDR: 17 Abercromby Street, Port of Spain. **Te:** 32618. **Cable:** Voice – **L.P:** St. Mgr: P. Pitts. Dir. Tec: F. Thompson.
STATIONS: 610kc 10kW – FM 98.9Mc 0.25kW.
HOME SCE. in English: 09.56–03.07. **N:** on the h – **Gov. Prgr:** 00.00– **Wrp:** On the ½ h – **ANN:** "This is R. Guardian, The Voice of Trinidad & Tobago" – **V.** by letter.

TURK & CAICOS ISLANDS (British)

L.T: GMT – 5 h – **Pr.L:** English.
RADIO STATION VSI8
ADDR: Cable and Wireless (West Indies) Ltd, Mercury House, Grand Turk. **Te:** 2. **Cable:** Cablewire – **L.P:** St. Mgr: P. H. Straw.
STATION (System: Marconi): VSI8 4560kc 65.79m 0.2kW.
D. PRGR'S: N. in English: 18.30 (10 to 20 min's). Local N. issued by the Gov – **ANN:** "R. St. VSI8 owned and operated by Cable and Wireless (W.I.) Limited" – **V.** by letter. Rp.

VIRGIN ISLANDS (American)

L.T: GMT – 4 h – **Pr.L:** English.
RADIO AMERICAN WEST INDIES, INC. (Comm.)
ADDR: P.O. Box 931, Christiansted, St. Croix. **Te:** 223 – – **L.P:** Dir. Gen: Mrs. H. M. Higdon. St. Mgr: Mrs. M. P. Long. Dir. Tec: R. E. Higdon – **STATION:** WIVI 970kc 5kW – **FM:** 99.5Mc 4.9kW.
D.PRGR: 24 h – **N: English:** On the h (Headlines on the half h) – **Wrp:** 17.15 – **Spanish:** 18.00–20.00 – **ANN:** "This is WIVI, 970 on your dial, located at Fort Louise Augusta, Christiansted, St. Croix, US Virgin Islands".

RADIO STATION WSTA (Comm.)
ADDR: P.O. Box 538, St. Thomas, US Virgin Islands 00802. **Te:** 774–1340. **Cable:** WSTA.
STATION: 1340kc 0.25kW – **HOME SCE:** 10.00–04.00. **N:** Every h on the h at 11.00–03.00; also at 21.45, 03.55 – **ANN:** "This is WSTA – 1340 on your dial in St. Thomas, Virgin Islands" – **V.** by letter. Recordings accepted – **F.Pl:** 1kW.

ISLAND TELERADIO SERVICE, INC (Comm.)
FI: By adv. revenues – **AD:** 15, 30 or 60 seconds – **ADDR:** P.O. Box 1947, St. Thomas, US Virgin Island 00802. **Te:** 774–00300. **Cable:** WBNB – **L.P:** Pres: R. Moss. Secr. Treasurer: R. E. Noble.
STATION (System: Collins): WBNB 1000kc 1kW.
HOME SCE. in English: W 10.30–04.00. Sun 12.00–03.00. **N:** on the h – **ANN:** "WBNB, Radio Ten, St. Thomas" – **V.** by letter. Rp.

WINDWARD ISLANDS

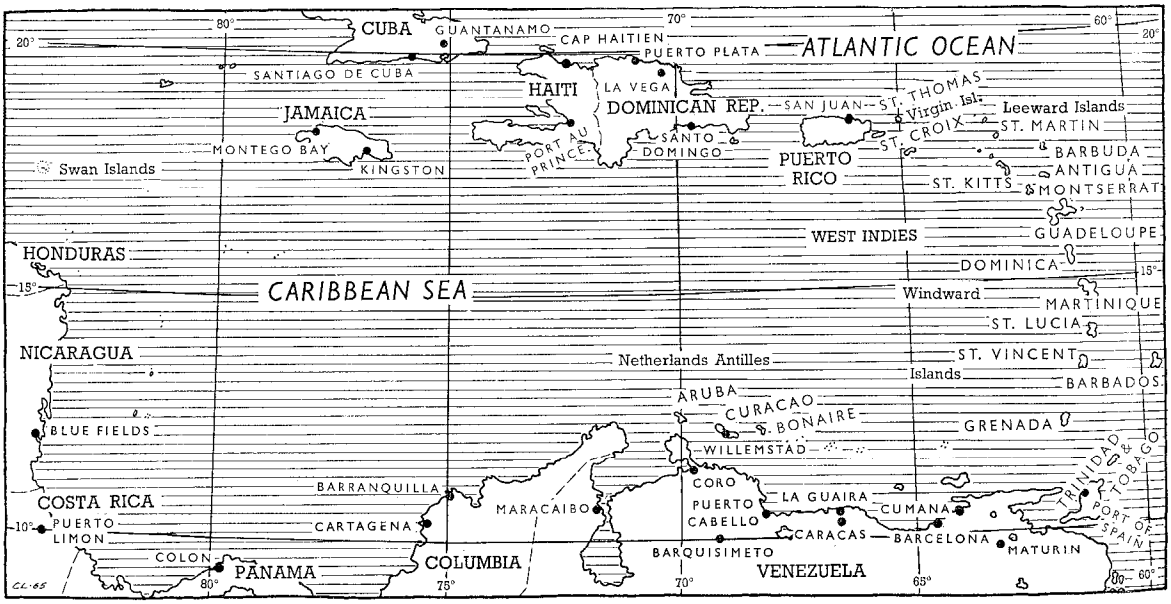
L.T: GMT – 4 h – **Pr.L:** English.
WINDWARD ISLANDS BROADCASTING SERVICE (Gov.)
FI: By state and by license fees – **ADDR:** St. George's, Grenada, W.I. **Te:** 4251. **Cable:** Broadcasts – **L.P:** Man. Dir: A. C. G. Palmer, M.B.E. Dir. Tec: R. A. Smith, Memb, I.E.E.E.
HOME SCE: a) Grenada, b) Dominica, c) St. Vincent, d) St. Lucia, e) Carriacon.

St. George's	a)	535kc 0.5kW	Chateaubelair	c)	1515kc 0.1kW
Castries	d)	1565kc 0.25kW	Kingstown	c)	705kc 0.5kW
Roseau	b)	695kc 0.5kW	Hillsborough	e)	1045kc 0.1kW

All mw's: 15.45–02.15.
Short Waves (St. George's; Systems: RCA, Redifon):
2420kc 124.0 m 5kW: 22.40–02.15 (1).
3280kc 91.40m 5kW: 22.40–02.15.
5015kc 59.82m 5kW: 15.45–17.45, 19.59–02.15.
9550kc 31.41m 5kW: 15.45–17.45.
11895kc 25.22m 5kW: 19.59–20.45 (2).
15085kc 19.89m 5kW: see below.
15130kc 19.86m 5kW: 19.45–22.35 (3), 19.45–21.45 (4).
1) Dec. to Mid-Feb; 2) Mid-Nov to Mid-Feb; 3) Apr-Sept; 4) Oct to Mid-Nov & Mid-Feb to April.

OVERSEAS SCE. (to British Isles):
Special broadc. covering International cricket on 15085kc 15.00–19.00 and on either 11895 or 15130kc 19.00–22.30 depending on time of year – **ANN:** "This is the Windward Islands Broadc Sce".
INT-SIG: A typical calypso phrase played on the "ping-pong", an indigenous instrument made from the top of a steel drum.

V. by QSL-card. **Re:** below 9Mc not wanted. Above 9Mc wanted. Answered to best of ability due very limited staff – **PUB:** Prgr.-sched. (weekly).



RADIO CARIBBEAN (Comm.)
FI: By adv – **AD:** Max. 12 min. per h.
ADDR: P.O. Box 121, Castries, St. Lucia W.I. **Te:** 154 R. 2. **Cable:** Caradio – **L.P:** Mgr: T. K. Archer M.C.I.M. Dir. Prgr's: C. S. Baylet.
STATION (System: Collins): 840kc 10kW.
HOME SCE. in English: 10.00(Sun 10.45)–03.00(Sun 02.30).
English: 12.30–13.30(W), 20.00–22.00(D). **N:** 13.00, 20.00 – **French:** W 10.00–12.30, 13.30–18.30(Sat 20.00), 22.00–03.00. Sun 10.45–20.00, 22.00–02.30. **N:** W 10.30, 11.00, 11.45, 12.15, 17.00, 23.00, 01.00. Sun 11.30, 17.00, 23.00, 01.00 – **L.L:** "Keep up your English": Tues, Thurs, Sat 22.00 – **Request Prgr:** French: 23.30, English 20.45 – **ANN:** E: "This is R. Caribbean International St. Lucia broadc. on a freq. of 840kc in the mw band". F: "Ici R. Caraibes International, Ste. Lucie, emettant sur 840kc" – **V.** by letter. Rp. Recordings accepted – **F.PL:** A 10kW tr. to broadc. in English all day in addition to French prgr's.

SOUTH AMERICA

ARGENTINA

L.T: March–Oct: GMT – 4 h; Oct–Feb: GMT – 3 h – **Pr.L:** Spanish.

SECRETARIA COMUNICACIONES
ADDR: Sarmiento 151, Buenos Aires. **Te:** 31-5031. **Cable:** Gentel Baires.

R. NACIONAL (Servicio Oficial de Radiodifusion – Gov.)
ADDR: Ayacucho 1556, Buenos Aires. **Te:** 84-2021 – **L.P:** Dir. Gen: L. A. Quesada. Dir. Tec: J. M. Serrano.
HOME SERVICE: Short Waves: *=Sat/Sun only.

Call	kc	m	kW	Name and h of tr.
LRA31	6060	49.50	50	Buenos Aires: 12.00–15.00
LRA34	6180	48.54	10	Mendoza: 14.00–04.00
LRA32	9690	30.96	100	Buenos Aires: 22.00–05.00*
LRA33	15345	19.55	100	Buenos Aires: 12.00–18.30

Medium Waves: °=Short Wave.

Call	kc	kW	Name	h of tr.
LRA13	560	10/3	Bahia Blanca	12.00–04.00
LRA12	620	5	Santo Tome	12.00–04.00
LRA10	620	5	Ushuala	15.00–03.00
LRA9	670	5	Esquel	15.00–04.00
LRA4	690	10/5	Salta	14.00–04.00
LRA3	730	20/5	Santa Rosa	14.00–24.00
LRA7	750	50	Córdoba	12.00–04.00
LRA8	780	5	Formosa	13.00–04.00
LRA	°870	100	Buenos Aires	12.00–04.00
LRA11	900	5	Comodoro Rivadavia	23.00–04.00
LRA6	°960	20/5	Mendoza	13.00–04.00
LRA5	1310	5	Rosario	12.00–04.00

D.PRGR: N: 12.00, 16.00, 24.00 – **V.** by QSL-card.

INTERNATIONAL SERVICE
ADDR: Radiodif. Argentina al Exterior (RAE), Sarmiento 151, Buenos Aires – **L.P:** A. Cristiani.
STATIONS: *=R. Belgrano.

Call	kc	m	kW	Call	kc	m	kW
LRY1	*6090	49.26	40	LRA35	11710	25.62	100
LRA32	9690	30.90	100	LRY2	*11780	25.47	7

TO JAPAN: Japanese D 09.00–10.00 on 9690kc.
TO EUROPE: 19.00–23.00 on 6090/11710/11780kc (19.00 Spanish, 20.00 German, 21.00 Italian, 22.00 French); 23.00–24.00 on 11710kc (English).
TO NO. AMERICA (East): 00.00–02.00 on 9690kc, 02.00–03.00 on 9690/11780kc, 03.00–04.00 on 6090/9690/11780kc (00.00 Portuguese, 01.00 Spanish, 03.00 English).
TO NO. AMERICA (West): 04.00–07.00 on 6090/9690/11780kc (04.00 Spanish, 06.00 English).
Prgr's: N, Argentina music, Folk music, Mailbag (every Thurs). **ANN:** Sp: "Aqui Argentina". G: "Hier spricht Argentinien". I: "Qui Argentina". F: "Ici l'Argentine". E: "This is Argentina Calling". P: "Aqui Argentina" – **V.** by QSL-card.

OFFICIAL STATIONS (Gov.)

Call	kc	kW	Call	kc	kW	Call	kc	kW
1) LS1	710	50	5) LS11	1270	30/5	9) LT21	1520	0.1
2) LU14	730	5	6) LV17	1360	0.25	10) LT19	1550	0.25
3) LT10	1020	10/5	7) LV18	1370	0.25	11) LT24	1550	0.1
4) LT17	1250	5/2	8) LR11	1390	6	12) LR7	1570	0.1

1) **R. Municipal,** Arturo Toscanini 1168, Buenos Aires – **D.Prgr:** 10.00–06.00 – **L.P:** V. Tedin – 2) **R. Provincia de Santa Cruz,** Roca 825, Rio Gallegos – **D.Prgr:** 12.00–06.00 – **L.P:** J. Grumblat – 3) **R. Universal del Litoral,** 9 de Julio 3550, Santa Fé – **L.P:** Dir: L. Bonaparte – **D.Prgr:** 16.00–05.00 – 4) **R. Provincia de Misiones,** Casa de Gobierno, Posadas – **D.Prgr:** 14.00–02.00 – **L.P:** Dir: F. Damus. 5) **R. Provincia de Buenos Aires,** Ca. 10 y Av. 53, La Plata. **Te:** 3-9158 – **L.P:** Dir: M. Eloy del Rio. Dir. Tec: M. Angel Cadut – **D.Prgr:** 11.00–04.00 – **V.** by QSL-card or letter – 6) **R. Municipal de Cordoba,** Marcelo T. de Alvear y 27 de Abril, Córdoba – **L.P:** Dir. Gen: E. Adalberto Y – **D.Prgr:** 11.30–00.30 – 7) **R. Municipal de San Rafael,** San Rafael, Mendoza. **L.P:** Dir: A. Maslup. **D. Prgr:** 14.00–18.00 – 8) **R. Universidad Nacional de la Plata,** Plaza Rocha 133, La Plata. **L.P:** Dir. Gen: A. Nunez. **D.Prgr:** 22.00–05.00 – 9) **R. Municipal de Alvear,** Alvear, Corrientes – 10) **R. Municipal de Santo Tomé,** Santo Tomé, Corrientes – 11) **R. Municipal de Rafaela** Rafaela, Santa Fe – 12) **R. Municipal de Avellaneda,** Avellaneda, Buenos Aires.

PRIVATELY OWNED COMMERCIAL STATIONS
ASOCIACION RADIODIFUSORAS PRIVADAS ARGENTINAS (A.R.P.A.)
ADDR: Cangallo 1561, Buenos Aires. **Cable:** Arpair. **Te:** 354412. **L.P:** Pres: H. E. Long.
COMISION ADMINISTRADORA DE EMISORAS COMERCIALES Y TV (Gov+comm st's administration) – **ADDR:** Cerrito 941, Buenos Aires. **Te:** 42-0411.

Short Waves: Location: Buenos Aires (all Gov. operated).

Call	kc	m	kW	Name	h of tr.
1) LRS2	5985	50.13	1	R. Splendid	11.00–03.00
2) LRY1	6090	49.26	40	R. Belgrano	08.45–06.45
3) LRX1	6120	49.02	10	R. El Mundo	12.00–05.00
3) LRX	9660	31.06	7	R. El Mundo	10.00–13.45
3) LRX2	9710	30.90	7	R. El Mundo	14.00–05.00
1) LRS1	9740	30.79	1	R. Splendid	11.00–03.00
2) LRY2	11780	25.47	10	R. Belgrano	08.45–06.45
1) LRS	11880	25.25	1	R. Splendid	11.00–03.00
3) LRU	15290	19.62	10	R. El Mundo	10.00–11.45

Medium Waves: °)=Short Wave.

Call	kc	kW	Call	kc	kW	Call	kc	kW
4) LVI	560	10/3	27) LV7	900	10/5	46) LT6	1200	5/3
5) LT15	560	5/3	1) LR4	°910	50	47) LT2	1230	15/5
6) LW1	580	10/5	2) LR3	°950	100	48) LU10	1240	10/5
7) LV12	590	10/5	28) LW8	960	20/5	49) LV13	1250	5
8) LS4	590	10/5	29) LV2	970	15/5	50) LU17	1250	3.5
9) LU8	590	5/1	30) LR5	990	50	51) LT9	1260	5/2.5
10) LV10	620	20/5	31) LT4	1010	25/3	52) LT11	1300	3/1.5
11) LS5	630	25	32) LV16	1010	10/3	53) LU13	1300	10
12) LV14	630	5/1.5	33) LU21	1020	5	54) LU6	1320	10
13) LU4	640	5	34) LS10	1030	25/5	55) LT14	1330	10/1.5
14) LV15	640	1	3) LR1	°1070	100	56) LU11	1340	0.25
15) LU9	670	25/5	35) LT5	1080	10/5	57) LS6	1350	20/5
16) LT7	670	5	36) LV5	1090	15/5	58) LT12	1360	3
17) LU12	680	25/2	37) LR2	1110	20/5	59) LT16	1370	5/3
18) LV6	680	25	38) LU7	1120	10/5	60) LU15	1440	0.25
19) LU16	690	5	39) LU5	1130	20/5	61) LW2	1460	0.25
20) LW7	730	5/1	40) LV3	1150	10	62) LT13	1470	0.25
21) LV8	780	10	41) LT3	1160	10/5	63) LU19	1470	1
22) LR6	790	50	42) LV11	1170	5	64) LW4	1510	0.25
23) LU2	820	10/5	43) LR9	1190	5	65) LU18	1510	0.25
24) LT8	830	10/5	44) LW3	1190	10/5	66) LU20	1010	10
25) LV9	830	10/5	45) LU3	1200	25/5	67) LT18	1550	0.25
26) LV4	840	5						

Priv. st's: 4), 5), 8), 10), 11), 15), 16), 17), 18), 23), 25), 31), 32), 34), 45), 48), 50), 51), 53), 56) and 60)–67).

Short Waves:
1) Uruguay 1237, Buenos Aires – **L.P:** Dir: R. Arancibia. Dir. Tec: E. Grazziani – **D.Prgr:** 09.30–05.00. **N:** 10.00, and every h on the h from 11.00 – **ANN:** "LR4, R. Splendid de Buenos Aires, con sus ondas cortas, LRS, LRS1 y LRS2 de la Red Argentina de Emisoras Splendid" – **INT-SIG:** 4 notes on electronic gong – **V.** by QSL-card.
2) Cerrito 941, Buenos Aires. **Te:** 42-9661 – **L.P:** Dir. Gen: E Narboni. Dir. Adm: M. Domingo B. Dir. Tec: M. Koelble. **D.Prgr:** 08.45–04.15. **N:** 09.00, 11.00, 15.00, 16.00, 20.00, 22.00, 01.00, 03.00, 04.00. (6090 & 11780kc partly relaying R. Nacional) – **ANN:** "Transmite LR3 R. Belgrano de Buenos Aires, con sus ondas cortas LRY1, LRY2 y su circuito de emisoras del Interior". **INT-SIG:** 4 notes on vibraphone – **V.** by QSL-card.
3) Maipú 555, Buenos Aires – **L.P:** Dir: R. Medina. Dir. Tec: C. Cutler – **D.Prgr:** 09.00–04.00 – **ANN:** "LR1, R. El Mundo de Buenos Aires y su Red Azul y Blanca de Emisoras Argentina" – **Int-Sig:** Gong – **V.** by QSL-card.

Medium Waves: D.Prgr's: 10.00–04.00 exc. where indicated.
4) **R. Colon,** Mendoza 369, San Juan. **L.P:** Dir: J. Graffigna. **V.** by letter. Recordings accepted.
5) **R. Concordia,** La Rioja 622, Concordia, Entre Rios. **L.P:** Dir: C. Pinola. **D.Prgr:** 09.30–03.00, Sat 09.30–04.00.
6) **R. Univ. de Córdoba,** Rivera Indarte 170, Córdoba. **L.P:** Dir: F. Garzón M. **D.Prgr:** 09.30–04.30.
7) **R. Independencia,** Rivadavia 118, Tucumán. **L.P:** Dir: P. Soage.

D.Prgr: 10.30–04.00 – 8) **R. Porteña,** Azauénaga 1625, Buenos Aires. **L.P:** Dir: T. Bidegain. **D.Prgr:** 24 h – 9) **R Bariloche,** San Carlos de Bariloche, Rio Negro. **L.P:** Dir: C. Lammuniere. **D.Prgr:** 12.00–02.00 – 10) **R. de Cuyo,** Av. San Martin y G.ral Paz, Mendoza. **L.P:** Dir: M. Fernandez R. **D.Prgr:** 24 h.
11) **R. Rivadavia,** Arenales 2467, Buenos Aires. **L.P:** Dir: J. Monk. **D.Prgr:** 24 h – 12) **R. La Rioja,** Mitre 743, La Rioja. **L.P:** R. A. Flores. **D.Prgr:** 11.00–04.00.
13) **R. Comodoro Rivadavia,** Moreno 765, Comodoro Rivadavia. **L.P:** Dir: F. Balbuena. **D.Prgr:** 09.00–05.00.
14) **R. Villa Mercedes,** Balcarce 470, Villa Mercedes, San Luis. **L.P:** Dir: J. Moreno. **D.Prgr:** 10.00–03.00.
15) **R. Mar del Plata,** Córdoba 1861, Mar del Plata. **L.P:** Dir: E, Marin P. **D.Prgr:** 24 h – 16) **R. Provincia de Corrientes,** Rioja 743. Corrientes. **L.P:** Dir: J. F. Gomez. **D.Prgr:** 24 h – 17) **R. Rio Gallegos,** Av. San Martin 461, Rio Gallegos, Santa Cruz. **L.P:** A. R. Segovia. **D.Prgr:** 12.00–03.00 – 18) **R. Nihuil,** Rioja 1239, Mendoza. **L.P:** Dir: G. F. Sánchez C. **D.Prgr:** 10.00–06.00 – 19) **R. Rio Negro,** Reconquista 135, Villa Regina, Rio Negro. **L.P:** Dir: D. López – 20) **R. Catamarca,** Rivadavia 741, Catamarca. **L.P:** Dir: N. Elias M. **D.Prgr:** 11.00–03.00 – 21) **R. Libertador,** Rioja 1484, Mendoza. **L.P:** Dir: F. Firnes V. **D.Prgr:** 11.00–05.00 – 22) **R. Mitre,** Arenales 1925, Buenos Aires. **L.P:** Dir: F. Ferretti. **D.Prgr:** 24 h – 23) **R. Bahia Blanca,** Sarmiento 54, Bahia Blanca. **L.P:** Dir: D. J. de Massot. **D.Prgr:** 10.00–07.30, Sat 24 h – 24) **R. Rosario,** Córdoba 1825, Rosario. **L.P:** Dir: H. Pavia. **D.Prgr:** 10.30–04.00, Sat 10.30–05.00.
25) **R. Güemes,** Dean Funes 28, Salta. **D.Prgr:** 10.00–05.00 – 26) **R. San Rafael,** Irigoyen y Francia, San Rafael, Mendoza. **L.P:** Dir: S. Illa. **D.Prgr:** 10.00–04.00 – 27) **R. Tucumán,** Mendoza 273, Tucumán. **L.P:** Dir: F. Etchegoin.
28) **R. Jujuy,** Ramirez de Velazco 253, Jujuy. **L.P:** Dir: C. Figueroa.
29) **R. La Voz de la Libertad,** Maipú 166, Córdoba. **L.P:** Dir: D. D. de Aguero. **D.Prgr:** 09.30–04.30 – 30) **R. Excelsior,** Rivadavia 827, Buenos Aires. **L.P:** Dir: J. Grone. **D.Prgr:** 10.00–05.00 – 31) **R. Misiones,** Cas. 18, Radioparque, Pozadas. **L.P:** Dir: C. Madelaire. **D. Prgr:** 24h – 32) **R. Ranquel,** Colón 78, Rio Cuarto, Córdoba. **L.P:** J. J. Lasa. **D.Prgr:** 08.00–04.00.
33) **R. Golfo San Jorge,** Italia 947, Comodoro Rivadavia. **L.P:** Dir: H. Ferro – 34) **R. Libertad,** Florida 165, Buenos Aires. **L.P:** Dir: A. Romay. **D.Prgr:** 09.00–04.00 – 35) **R. Chaco,** 9 de Julio 1855, Resistencia, Chaco. **L.P:** Dir: J. Sobrado. **D.Prgr:** 09.00–04.00, Sat 09.00–05.00 – 36) **R. Sarmiento,** Mendoza 466, San Juan. **L.P:** Dir: J. A. Ciriani – 37) **R. Argentina,** Santa Fé 2043, Buenos Aires. **L.P:** Dir: R. A. Sotomayor. **D.Prgr:** 09.00(Sun 10.00)–04.00 – 38) **R. General San Martin,** Alsina 247, Bahia Blanca. **L.P:** Dir: R. Rossell – 39) **R. Splendid,** Juan B. Alberdi 189, Neuquén. **L.P:** Dir: R. Sande. **D.Prgr:** 09.59–03.30
40) **R. Córdoba,** San Martín 60, Córdoba – 41) **R. Cerealista,** Balcarce 840, Rosario. **L.P:** Dir: A. Ciampoli – 42) **R. del Norte,** Libertad 251, Santiago del Estero. **L.P:** Dir: R. R. Lobos. **D.Prgr:** 10.00–03.00 – 43) **R. Antártida,** Arenales 1925, Buenos Aires. **L.P:** Dir: F. Ferretti. **D.Prgr:** 10.00–03.00 – 44) **R. Splendid Tucumán,** Mendoza 225, Tucumán. **L.P:** Dir: J. C. Fagaldo. **D.Prgr:** 10.00–05.00 – 45) **R. Azul,** Av. Mitre 819, Azul. **L.P:** Dir: J. Borrero – 46) **R. Genaro Berón de Astrada,** Mariano I. Lloza 231, Goya, Corrientes. **L.P:** Dir: M. Garcia G. **D.Prgr:** 10.00–03.00 – 47) **R. Splendid Rosario,** Santa Fé 1388, Rosario. **L.P:** Dir: P. Spoletti. **D.Prgr:** 10.00–07.00.
48) **R. del Sur,** Lamadrid 116, Bahia Blanca. **L.P:** Dir: H. Long. **D.Prgr:** 10.30–04.00 – 49) **R. San Luis,** Rivadavia 563, San Luis. **L.P:** Dir: O. J. Caridad. **D.Prgr:** 10.00–03.00 – 50) **R. Golfo Nuevo,** B. Mitre y Estivariz, Puerto Madryn, Chubut. **L.P:** Dir: P. Oscar C. **D.Prgr:** 10.00–05.30.
51) **R. Santa Fé,** San Martin 2685, Santa Fé. **L.P:** Dir: T. Savio. **D.Prgr:** 24 h – 52) **R. Splendid,** Onésimo Leguizamón 269, Concepción del Uruguay, Entre Rios. **L.P:** Dir: J. Korach. **D.Prgr:** 10.00–03.30 – 53) **R. Necochea,** Ca. Balcarce 2945, Necochea. **L.P:** Dir: M. R. G. de Rico. **D.Prgr:** 10.30–05.00. – 54) **R. Atlàntica,** San Martín 2583, Mar del Plata. **L.P:** Dir: M. Emilio S. **D.Prgr:** 10.00–07.00. V. by letter – 55) **R. General Urquiza,** Rivadavia 64, Parana, Entre Rios. **L.P:** Dir: C. M. W. Fox – 56) **Radioemis del Oeste,** Cas. 36, Trenque Lauquen. **L.P:** Dir: R. Saez. **D.Prgr:** 10.30–02.30 – 57) **R. del Pueblo,** J. A. Pacheco de Melo 2178, Buenos Aires. **L.P:** Dir: C. Aris B. **D.Prgr:** 10.00–03.00, Sat 10.00–05.00 – 58) **R. General Madariaga,** Paso de los Libros, Corrientes. **L.P:** Dir: L. C. Lucere. **D.Prgr:** 11.00–04.00 – 59) **R. Splendid,** J. J. de Urquiza 585, Presidencia Roque Saenz Peña. **L.P:** Dir. R. Galotto. **D.Prgr:** 09.00–03.00, Sat 09.00–04.00.
60) **R. Viedma,** Rivadavia 336, Viedma. **L.P:** Dir: O. Liccardi. **D.Prgr:** 12.30–01.30. – 61) **R. Tartagal,** San Martín 245, Tartagal, Salta. **L.P:** Dir: N. S. Martinez Gil. **D.Prgr:** 10.00–01.00 – 62) **R. Obera,** Jujuy 81, Oberá, Misiones. **L.P:** Dir: H. Amable. **D.Prgr:** 10.00–01.00 – 63) **La Voz del Comahue,** Cas 14, Cipolletti, Rio Negro. **L.P:** Dir: R. Rost. **D.Prgr:** 10.00–04.30 – 64) **R. Orán,** 9 de Julio 163, Orán, Salta. **L.P:** Dir: G. Bernad. **D.Prgr:** 12.00–04.00 – 65) **R. El Valle,** 25 de Mayo 880, General Roca, Rio Negro. **L.P:** Dir: F. Zarraga. **D.Prgr:** 10.00–02.00 – 66) **R. Chubut,** Italia 47, Trelew, Chubut. **L.P:** Dir: T. Boric. **D.Prgr:** 10.30–04.30. **English N:** 02.00–02.05. – 67) **R. Eldorado,** Eldorado, Misiones. **L.P:** Dir: M. A. Murad. **D.Prgr:** 10.00–02.00.

BOLIVIA

L.T: GMT–4 h – **Pr.L:** Spanish.

DIRECCION GENERAL DE RADIOCOMUNICACIONES

Departamento de Radiodifusion, La Paz.
L.P: Dir. Gen: H. Valdivia.

ASOCIACION BOLIVIANA DE RADIODIFUSORAS,

Casilla 586, La Paz – **L.P:** Pres: R. Salmón.
STATIONS: All st's comm. exc. 6), 10) (Rel), 17) (Gov), 20) (Cultural), 15), 25), 39).
Short Waves: *=inactive.

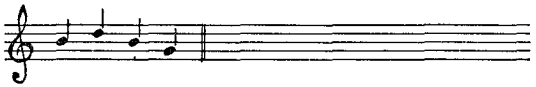
	Call	kc	m	kW	Name and h of tr.
1)	CP99	3340	89.81	1	R. Viloco, Viloco
2)	CP74	4785	62.70	1	R. Indoamérica, Potosi: 11.30–03.00
3)	CP73	4795	62.57	1	R. Nueva América, La Paz: 10.55–18.30, 22.00–05.00
4)	CP70	4825	62.18	1	R. Grigota, Santa Cruz: 10.00–03.00
5)	CP66	*4845	61.92	1	R. Centenario, Santa Cruz
6)	CP59	4855	61.79	1	R. Cobija, Cobija: 10.00–03.00
7)	CP77	4885	61.45	1	R. Sararenda, Camiri
8)	CP75	4985	60.75	10	La Cruz del Sur, La Paz: see below
9)	CP48	5015	59.82	1	R. Universo, La Paz
9a)	CP71	5872	51.03		R. San Jose, San José
10)	CP5	5955	50.38	0.5	R. Pio XII, Llallagua: 08.30–13.30, 14.30–19.00, 21.00–04.05
11)	CP44	5975	50.21	1	R. Nacional LAB, Cochabamba: 12.00–03.00
12)	CP41	5995	50.04	1	R. Loyola, Sucre: 12.00–22.00
13)	CP18	6070	49.42	1	R. El Condor, Oruro: 12.00–18.00, 22.00–03.00
14)	CP15	6125	48.98	1	R. El Condor, La Paz: 12.00–03.00
15)	CP30	6135	48.94	1	R. Santa Cruz, Santa Cruz: 15.00–18.00, 22.00–03.00
16)	CP12	6155	48.74	1	R. Fides, La Paz: 16.00–14.00, 21.00–03.00
17)	CP9	6255	47.96	1	R. Amauta, La Paz: 12.00–18.00, 21.00–03.00
18)	CP38	9505	31.56	5	R. Altiplano, La Paz: 12.00–23.00
19)	CP22	9605	31.23	5	R. Prefectura, Potosi
20)	CP6	9555	31.40	10	R. Illimani, La Paz: 11.00–04.00
21)	CP21	9715	30.88	1	R. La Plata, Sucre: 12.00–18.00, 22.00–03.00
8)	CP39	*11765	25.50	10	La Cruz del Sur, La Paz
22)	CP7	*11725	25.48	10	R. Illimani, La Paz
22)	CP40	*15155	19.80	10	Ministerio de Comunicaciones, La Paz
22)	CP86	*15300	19.60	10	R. Illimani, La Paz
22)	CP94	*17865	16.80	10	R. Illimani, La Paz
22)	CP96	*25700	11.67	10	R. Illimani, La Paz

Medium Waves: °=Short Waves.

	Call	kc	kW		Call	kc	kW		Call	kc	kW
23)	33	580	0.5	30)	55	1200	0.25	38)	68	1300	1
24)	63	620	1	31)	67	1200	1	39)	45	1330	0.25
25)	34	680	5	21)	54	°1250	0.25	40)	36	1330	0.25
8)	27	°730	5	6)	47	°1250	0.25	4)	24	°1340	0.25
9)	46	°780	0.25	7)	17	1250	0.25	41)	98	1350	5
26)	56	780	0.25	32)	16	1250	0.25	42)	3	1390	1
18)	35	°820	0.25	2)	53	°1250	0.25	43)	49	1420	1
14)	20	°900	0.25	11)	69	°1250	0.25	3)	8	°1470	1
28)	28	900	0.25	33)	14	1250	0.25	44)	1	1510	0.25
9a)	72	°910	0.25	34)	65	1250	0.25	45)	80	1510	0.25
17)	11	°960	0.25	35)	100	1250	0.25	46)	76	1510	0.25
15)	32	°960	0.25	36)	26	1250	0.25	47)	79	1510	0.25
22)	4	1020	20	37)	57	1250	0.25	10)	50	°1550	1
5)	25	°1160	0.25	12)	51	°1300	0.25	40)	83	1550	0.5
29)	78	1160	0.25	16)	29	°1300	0.25				

Short Waves:
1) Viloco – 2) Ca. Matos 35, Potosi.
3) Cas. 2431, La Paz. **Te:** 2-5883. **L.P:** Dir. Gen: R. Salmon. **D.Prgr:** **N:** 12.00, 17.00, 24.00.
4) Abaroa 315, Santa Cruz. **Te:** 2141. **Cable:** Grigota. **L.P:** Dir. Gen: D. Arteaga F. **D.Prgr:** **N:** 11.35, 16.15, 17.30, 24.00. **Ann:** "CP24 y CP70 Estaciones Radiofonicas Grigota, La Voz del Oriente Boliviano". V. by letter.
5) Argamosa 2, Santa Cruz – 6) Centre Accion Pandina, Cobija.
7) Correo Central Soc. Ltda, Sararenda Camiri.
8) Cajón 1408, La Paz. **Te:** 2-5578. **Fi:** By the Canadian Baptist Mission and the Methodist Church in Bolivia. **L.P:** Dir. Gen: F. Fortes. Dir. Prgr: M. W. Harrington. **D.Prgr:** 11.00–14.00, 16.00–17.45, 22.00–02.45. **N:** 11.30, 12.30, 17.00, 00.00, 02.00. **English:**

D 02.30–03.00. "E by R": 23.00 (BBC). **German:** 11.30. **Ann:** E: "This is CP27 and CP39, the Southern Cross Radio". Sp: "R. La Cruz del Sur, Luz que señala el camino de la vida". At 02.45 (s/off): "This is CP27 and CP39 the Southern Cross Radio". **Int-Sig:** Opens with "God of our Fathers", closes with "The Heavens are telling".



V. by QSL-card. Recordings accepted. **Pub:** Prgr.schedule free.
9) Casilla 232, La Paz. **Te:** 2-2995. **Cable:** Dico. **L.P:** Dir. Gen: J. Blanco G. Dir. Tec: A. Berthin M. V. by letter.
9a) Cas. 314 y 433, San José, Oruro. Te: 882. **L.P:** Dir. Gen: G. Delgadillo. V. by letter.
10) Padres Oblatos. **L.P:** Dir. Gen: Rev. Padre G. Dicaire O.M.I. Dir. Tec: R. V. Barries M. **D.Prgr: N. in Spanish:** 10.10, 12.00, 13.00, 15.00, 16.20, 18.00, 22.00, 23.20, 02.00, 03.00. **N. in Quechua:** 08.40, 16.03, 22.50. V. by letter. Recordings accepted.
11) Lloyd Aéreo Boliviano, Cochabamba.
12) Cas. 155, Sucre. **Te:** 1677. **Cable:** Radioloyola. **L.P:** Dir. Gen: R. Aguilo. Dir. Tec: J. Lora. **D.Prgr:** 11.00–03.00 (m.w). **N:** 12.00, 14.00, 15.30, 16.00, 16.45, 18.00, 22.00, 02.00. **Ann:** "Radioemisoras Loyola, Voluntad Católica de Bolivia". V. by letter. Recordings accepted.
13) La Plata 1139, Oruro.
14) Av. Camacho 1471. La Paz. **Te:** 2-3070. **D.Prgr: N:** W 11.30, 16.30, 23.30, 02.30 – **Ann:** "Estas son CP15 y CP20, estaciones de ondas cortas y larga de R. El Condor, La Voz Ferrovario, desde La Paz, Bolivia". V. by letter.
15) Ml. Ig. Salvatierra 234, Santa Cruz.
16) Cas. 283, La Paz. **L.P:** Dir. Gen: J. Gramunt. **D.Prgr: N:** 12.00, 15.30, 16.45, 17.30, 23.00, 24.00, 01.00. **Ann:** "R. Fides de La Paz, La Voz Católica de Bolivia".
17) Cas. 586, La Paz – 18) Av. Camacho de 1468, La Paz. **Te:** 10906 – 19) Prefectura, Potosi – 20) La Paz – 21) Plaza 25 de Mayo 41, La Plata, Sucre – 22) La Paz.

Medium Waves:
23) **R. Huayna Potosi**, Soc. Colectiva, H. Potosi, La Paz.
24) **R. San Gabriel**, Cas. 1071, La Paz. V. by letter or QSL-card.
25) **R. Mendez**, Av. 6 de Agosto 2008, La Paz – 26) **La Voz Minera**, Comando Movimiento Nacionalista Revolucionario Telemayo (Dep. Potosi) – 27) **R. Potosi**, Cas. Sucre 30, Potosi – 28) **R. Cochabamba**, Cas. 886, Cochabamba – 29) **R. Tunari**, Cochabamba. **L.P:** Dir: R. P. Luis Falch.
30) **Universidad Zénica**, Cas. 637, Oruro – 31) **R. Splendid**, Venezia 5, La Paz – 32) **Soc. Mercantil "Los Andes"**, 15 de Abril 828, Tarija – 33) **Emisoras "Unidas Ltda"**, Av. Camacho 1324, La Paz.
34) **R. Oruro**, Oruro. **D.Prgr:** 14.00–19.00, 21.00–03.00.
35) **R. Ibare**, Correo Central, Trinidad – 36) **Soc. Colectiva "Amboro"**, Libertad 348, Santa Cruz – 37) **R. 9 de Abril**, Pulacayo.
38) **R. San Rafael**, Cas. 546, Cochabamba. **L.P:** Dir. Gen: Rev. L. J. Sommer. Dir. Tec: H. Cosio. **D.Prgr:** 10.00–03.00. **N:** 11.30, 16.45, 23.00, 02.00. **N. in Quechua:** 23.30. **Ann:** "Transmite CP68, R. San Rafael, La Voz Católica de Cochabamba".
39) **R. Cultura**, Ca 386, Cochabamba – 40) **R. Mercurio**, Oruro – 41) **R. Nacional**, Cap. Castrillo 460, La Paz – 42) **R. Topater**, Cochabamba – 43) **R. Centro**, Santibañez 3420, Cochabamba – 44) **R. Chuquisaca**, Cochabamba 154, La Paz – 45) **Soc. R. "Litoral"**, Cas. 1009, Cochabamba – 46) **La Voz Católica**, Vicariato Apostólico, Concepción – 47) **R. Norte**, Correo Central, Montero.

BRAZIL

L.T: Eastern (Coastal): GMT−3 h (Su: GMT−2 h). Western: GMT −4 h (Su: GMT−3 h). Acre: GMT−5 h (Su: GMT−4 h) – **Pr.L:** Portuguese.

CONSELHO NACIONAL DE TELECOMUNIÇACÕES

(National Council of Telecommunications), Av. Pres. Wilson, 164-10° andar, Rio de Janeiro.

ASSOCIAÇÃO BRASILEIRA DE EMISSORAS DE RADIO E TELEVISÃO

ADDR: Av. Rio Branco 4, salas 901 903, Rio de Janeiro, G.B. **Te:** 43-87-26. **Cable:** Abertrio – **L.P:** Pres: Dr. J. de Medeiros Calmon. Vice Pres: Dr. F. Alcaras Gomes, A. Ziller. Exec. Dir: R. Tavares. Secr: F. Parente.
St's belonging to A.B.E.R.T: 1), 6), 7), 8), 10), 11), 16), 17), 19), 20), 21), 23), 27), 29), 30), 31), 32), 33), 36), 37), 38), 40), 41), 44), 46), 47), 48), 49), 50), 51), 52), 53), 55), 57), 58), 59), 62), 63), 64), 66), 67), 68), 70), 71), 72), 73), 75), 76), 77), 79), 80), 81), 83), 88), 90), 91), 94), 95), 96), 101), 102), 103), 104), 106), 109), 116), 117), 118), 120), 121), 122), 124), 125) + 236 m.w. st's.

DIARIOS E EMISSORAS ASSOCIADOS

Internat. Relations Dept, Directorate for Production & Technical Assistance: Rua Francisco Serrador 2, 2°, Rio de Janeiro, G.B. **Te:** 22-0182. **Cable:** Silapress. **Telex:** 031.380 – **L.P:** Dir: Dr. José de Almeida Castro. Dep. Dir: P. Leal.
St's belonging to Diarios Associados: 21), 29), 31), 55), 62), 71), 88), 94), 103), 104), 108), 120), 122), 124) + 4 m.w. st's.

All prgr.details are subject to alterations without notice. **NB:** All st's carry "A voz do Brazil" at 22.00.

STATIONS: Short Waves: *=inactive.

	Call	kc	m	kW	Name	h of tr.
1)	ZYV30	2130	140.9	0.5	R.Dif. Brasileira, Uberlandia	09.00–02.00
2)	ZYB	2350	127.6	1	R.Dif. Itacoatiara	10.00–01.00
3)		2360	127.1	0.25	R.Dif. Parintins	10.00–01.00
4)		2360	127.1	1	R. Cult. Carauru	10.00–24.00
5)		2370	126.1	0.25	R.Cl. Fluminense, Sao João de Mariti	09.00–03.00
6)		2380	126.0	0.25	R. Educadora de Limeira	09.00–02.00
7)	ZYV71	2390	125.5	0.5	R. Por Um Mundo Melhor, G. Valadares	09.00–03.00
8)		2390	125.5	0.5	R. Cultura de Monte Alto, Jaboticabal	10.00–24.00
9)		2400	125.0	0.1	R. Mossoró	09.00–03.00
10)		2400	125.0	0.5	R.Dif. de Amparo	08.30–24.00
11)	ZYW32	2400	125.0	0.5	R. Carajá, Anápolis	09.00–01.00
12)		2410	124.1	1	R. Sirena, Leopoldina	11.00–01.00
13)		2420	124.0	0.5	R. São Carlos	09.00–04.00
14)		2420	124.0	0.25	R. Carolina	11.00–24.00
15)		2430	123.5	0.25	Dif. Rio Bonito	09.00–02.00
16)	ZYR231	2450	122.4	0.5	R. Cultura de Araçatuba	09.00–01.00
17)	ZYR99	2460	122.0	0.5	R. Cacique de Sorocaba	09.30–03.00
18)		2480	121.0	1	R. Braganca, Braganca Paulista	
19)	ZYN62	3255	92.17	0.5	R.Cl. de Marilia	10.00–02.30
20)	ZYR79	3265	91.87	4	R. Ribeirão Preto	08.30–02.30
21)	ZYK21	3265	91.87	1	R. Tamandaré, Recife	09.00–04.00
22)	ZYR31	3275	91.60	1	R.Cl. Bauru	09.00–02.00
23)	ZYR89	3285	91.32	1	R. Aparecida	09.00–03.00
24)		3285	91.32	1	Emis. da Educacão Rural, Natal	08.45–02.00
25)	ZYV75	3295	91.00	0.5	R. Educ. de Uberlandia	08.45–03.00
26)	ZYH31	3305	90.77	1	R. Educadora do Cariri, Crato	11.00–24.00
27)	ZYV63	3315	90.50	0.5	R. Itatiaia, Belo Horizonte	24 h
28)	ZYR220	3325	90.23	0.1	R.Dif. Guarulhos	09.00–01.00
29)	ZYJ21	3325	90.23	1	R. Borborema, Campina Grande	08.30–03.00
30)	ZYR59	3335	89.95	0.5	Vóz do Sertão, Pres. Prudente	12.00–17.00
31)	ZYE21	3335	89.95	1	R. Marajoára, Belem	09.00–03.00
32)		3345	89.68	1	R. Alvorada de Londrina	09.00–03.00
33)	ZYS44	3365	89.15	0.5	Dif. do Paraná, Londrina	09.00–01.00
34)	ZYK28	3375	88.88	10	R. Olinda Pernambuco	03.00–24.00
35)		3385	88.63	0.5	R.Cl. Teresina	11.00–02.00
36)	ZYA41	3385	88.63	1.5	R. Eldorado, Rio	09.00–03.00
37)		3395	88.37	1	R. Tapuyo de Mossoró	09.55–03.00
38)	ZYF24	4710	63.69	0.1	R.Dif. do Maranhão, São Luiz	09.00–01.00
39)	ZYY3	4735	63.35	1.5	R. Brasil, Campinas	09.00–02.00
40)	ZYN37	4765	62.96	1	R. Feira de Santana	08.50–03.00
41)	ZYH29	4775	62.84	5	R. Dragão do Mar, Fortaleza	09.00–01.00
42)	ZYR81	4775	62.84	5	R. Progresso de São Paulo	09.00–01.00
43)	ZYY20	4785	62.70	1	R.Dif. Guaporé Porto Velho	12.00–02.00
44)	ZYM8	4785	62.70	0.5	R. Ribamar, São Luiz	11.00–02.00
45)	ZYU25	*4795	62.57	1	R. Cultura de Cambuquira	
46)	PRI4	4795	62.57	2	R. Tabajara, João Pessoa	09.00–02.00
47)	ZYP27	4795	62.57	0.5	R. Copacabana	09.00–03.00
48)	ZYS8	4805	62.43	5	R.Dif. de Amazonas, Manaus	09.00–02.00
49)	ZYP33	4815	62.31	1	R.Dif. Petropolis	10.00–04.00
50)	ZYH27	4815	62.31	1	R. Iracema de Fortaleza	09.00–03.00
51)	ZYE7	4825	62.18	0.5	R. Educadora de Parnaiba	10.00–02.00
52)	ZYV57	4825	62.18	0.5	R. Soc. Uberaba	09.30–02.30
53)	ZYV56	4835	62.05	0.5	R.Cl. de Varginha	10.00–02.00
54)	ZYA	4835	62.05	1	R.Dif. Roraima, Boa Vista	11.00–16.00, 22.00–03.00

Brazil

Call	kc	m	kW	Name	h of tr.
55) ZYU8	4845	61.92	0.5	R.Dif. Teresina	08.00–03.00
56) ZYR61	4855	61.79	1	R.Dif. Taubaté	11.00–03.00
57) PRC5	4865	61.66	2	R.Cl. do Pará, Belem	09.00–12.00, 15.00–03.00
58) ZYZ30	4875	61.54	1	R. Jornal do Brasil, Rio de Janeiro	08.30–05.00
59) ZYG26	4885	61.41	1	R. Pioneira de Teresina	07.45–03.00
60) ZYD9	4885	61.41	1	R.Acreana, Rio Branco	12.00–02.00
61) ZYN50	4885	61.45	5	R. Cultura de Poços de Caldas	10.00–01.00
62) PRF6	4895	61.29	1	R. Baré, Manaus	09.00–11.00 14.00–16.00, 22.00–03.00
63) ZYN23	4895	61.28	1	R. Bahia, Salvador	09.00–04.00
64) ZYZ20	4905	61.16	5	R. Relogio Federal, Rio de Janeiro	00.00–24.00
65) ZYR60	4915	61.04	1	R. Cultura de Araraquara	09.00–03.00
66) ZYE2	4915	61.04	2	R.Dif. Macapá, Amapá	12.00–01.00
67) ZYL20	4925	60.90	1	Emis. Rio São Francisco, Penedo	12.00–01.00
68) ZYV32	4925	60.90	1	R. Industrial de Juiz de Fóra	09.00–02.00
69) ZYA6	4925	60.90	1	R. Iracema, Sobral	09.00–02.00
70)	*4935	60.80	0.5	Lins R.Clube Lins	
71) ZYI21	4935	60.80	1	R. Poti, Natal	09.00–11.00 14.00–16.00, 20.00–03.00
72) ZYO25	4945	60.67	1	R. Capixaba, Vitoria	10.30–02.00
73) ZYF22	4945	60.67	0.25	R. Caixas do Sul	11.00–01.00
74) ZYE23	4945	60.67	1	R. Educadora de Bragança	09.00–01.00
75) PRF7	4955	60.54	2	R. Cultura de Campos	09.00–02.30
76)	4955	60.54		R. Caiari, Porto Velho	09.00–01.30
77) ZYV9	4975	60.30	5/2.5	R. Timbira, São Luiz	12.00–03.00
47) ZYP27	4975	60.30	1	R. Copacabana	09.00–03.00
78) ZYZ25	4985	60.18	1.5	R. A Voz do Oeste, Guiaba	10.00–02.00
79) ZYY2	4995	60.06	5	R. Brasil Central, Goiania	09.00–05.00
80) PRC8	*5015	59.80	1	R. Guanabara, Rio de Janeiro	
81) ZYV24	5025	59.70	1	R.Dif. Aquidauana	12.00–02.00
82)	5025	59.70	1	R.Dif. A Voz da Amazonia	
83) ZYW22	5035	59.58	1	R.Anhanguera, Goiania	09.00–03.00
84) PRI4	5035	59.58	0.5	R. Espirito Santo, Vitoria	12.00–01.00
85)	5045	59.46		R. Mundial, Rio de Janeiro	
86) ZYP23	5045	59.46	1	R. Imperial, Petrópolis	11.00–01.00
87) ZYO21	5055	59.35	2	R. Cult. de Cuiabá	11.00–02.00
88) ZYO23	5055	59.35	2	R. Vitória	15.00–18.00, 21.00–03.00
89) ZYR226	5955	50.38	50	R. Gazeta de São Paulo	09.00–04.00
90) ZYU60	5965	50.28	7.5	R.Guaiba, Porto Alegre	09.00–03.00
91) ZYT44	5975	50.21	10	R. Guarujá, Florianopolis	11.00–04.00
92) PRL5	5990	50.04	7.5	R. Ministerio da Educação Rio de Janeiro	08.30–05.00
93) PRK5	6000	50.00	5	R. Inconfidencia, Belo Horizonte	11.00–04.00
94) PRA8	6015	49.88	25	R.Cl. de Pernambuco, Recife	08.00–04.00
95) ZYR63	6025	49.79	10	Emis. Piratininga, São Paulo	11.00–04.00
96) ZYZ26	6035	49.71	10	R. Globo, Rio de Janeiro	08.00–04.00
97) ZYS33	6045	49.63	7.5	R.Cl. Paranaense, Curitiba	09.00–03.00
98) PRB21	6055	49.55	10	R. Panamericana, São Paulo	12.00–01.00
99) ZYZ31	6065	49.46	7.5	R. Rural Brasileira, Rio de Janeiro	08.00–12.00, 20.00–23.00
100) PRL8	6065	49.46	10	R. Nacional, Brasilia	08.00–03.00
101) ZYK2	6085	49.30	15	R. Jornal do Comércio, Recife	09.00–03.00
102) ZYB7	6095	49.22	25	R.Dif. São Paulo	09.00–03.00
103) ZYN6	6105	49.14	5	R.Cl. Ceará, Fortaleza	09.00–21.00
104) ZYC7	6115	49.06	100	R. Tupi, Rio de Janeiro	09.00–02.00
105) PRG9	6125	48.98	7.5	R. Nacional, São Paulo	09.00–03.00
106) PRC21	6135	48.90	10	R. TV Gaucha, Porto Alegre	09.00–04.00
107) PRL6	6145	48.82	50	R. Nacional, Rio	08.00–05.00
102) ZYR58	6165	48.66	7.5	R. Difusão São Paulo	09.00–04.00
108) ZYV74	6175	48.58	10	R. Guarani, Belo Horizonte	24 h
109) ZYR77	6185	49.58	10	R. Bandeirantes, São Paulo	09.00–04.00
110) PRD21	6195	48.43	10	Emis. Continental	07.30–04.30
86) ZYP	7045	42.58	5	R. Imperial, Petropolis	10.00–03.00
100) PSL	7935	37.81	20	Agencia Nacional	22.30–23.30

Call	kc	m	kW	Name	h of tr.
111) PRN9	9295	32.28	2.5	R.Dif. Departamento Segurança	
98) PRB22	9505	31.56	7.5/50	R. Record, São Paulo	09.00–03.30
112) PRD5	9515	31.53	1	R. Roquete Pinto	15.00–03.00
113) ZYS43	9545	31.43	7.5	R. Emis. Paranaense, Curitiba	10.00–03.00
101) ZYK3	*9565	31.37	15	R. Jornal do Comercio, Recife	
114) ZYZ27	9575	31.33	10	R. Mayrink Veiga, Rio de Janeiro	00.00–24.00
115) ZYR56	9585	31.30	50	R. Excelsior, São Paulo	10.00–04.00
63) ZYN29	9595	31.27	20	R. Cultura de Bahia	09.00–04.00
104) ZYC8	9610	31.22	10	R. Tupi, Rio de Janeiro	08.00–05.00
115) ZYR96	9620	31.19	10	R. 9 de Julho, São Paulo	10.00–04.30
23) ZYR83	9635	31.14	7.5	R. Aparecida	12.00–03.00
95) ZYR64	*9635	31.14	10	R. Piratininga, São Paulo	
61) ZYV40	9645	31.10	7.5	R. Cultura de Poços de Caldas	12.00–24.00
116)	*9665	31.04		R. Rio, Rio de Janeiro	
100) PRL8	9665	31.04	10	R. Nacional, Brasilia	09.00–04.00
117) ZYT29	9675	31.01	10	R. Diario da Manha, Florianopolis	09.00–03.00
89) ZYR227	9685	30.98	7.5	R. Gazeta	09.00–04.00
118) ZYB22	9695	30.94	7.5	R. Rio Mar, Manaus	08.00–20.00
119) ZYZ24	9705	30.91	10	R.Mauá, Rio de Janeiro	07.00–05.00
107) PRL7	9720	30.86	50	R. Nacional, Rio	08.00–04.00
120) ZYU59	9730	30.83	7.5	R. Farroupilha, Porto Alegre	08.55–03.00
121) ZYR57	9745	30.79	7.5	R. Cultura, São Paulo	09.00–03.00
79) ZYW23	*9755	30.70	7.5	R. Brasil Central	
83) ZYW23	9755	30.70	1	R.Anhanguera, Goiania	12.00–01.00
92) PRL4	9770	30.71	1	R. Ministerio da Educação, Rio de Janeiro	08.30–05.00
100) PSH	10220	29.35	20	Agencia Nacional	22.30–23.30
100) PRL8	11720	25.60	10	R. Nacional, Brasilia	08.00–03.00
122) ZYW28	11735	25.56	7.5	R.Cl. de Goiania	11.00–02.00
95) ZYR65	11745	25.54	10	R. Emis. Piratininga, São Paulo	09.00–04.00
121) ZYB8	11765	25.50	25	R. Tupi, São Paulo	09.30–03.30
114) ZYZ28	11775	25.48	10	R. Mayrink Veiga, Rio de Janeiro	00.00–24.00
90) ZYU61	11785	25.46	7.5	R. Guaiba	21.00–04.00
107) PRL3	11795	25.43	10	R. Nacional, Rio	08.00–04.00
96) ZYZ36	11805	25.41	10	R. Globo	08.00–04.00
79) ZYW24	11815	25.39	7.5	R. Brasil Central, Goiania	09.00–05.00
101) ZYK32	*11825	25.37	15	R. Jornal do Comercio, Recife	
106) PRC23	11835	25.35	10	R. TV Gaucha	09.00–04.00
123) ZYA56	*11855	25.31	10	Rede Paranaense de Emisoras, Curitiba	
94) PRA8	11865	25.28	7.5	R.Cl. Pernambuco	07.55–03.00
124) ZYN32	11875	25.26	7.5	R. Soc. da Bahia, Salvador	08.30–03.00
119) ZYZ25	*11885	25.22	10	R. Mauá	
109) ZYR78	11925	25.16	10	R. Bandeirantes	09.00–03.00
97) ZYS35	11935	25.14	7.5	R.Cl. Paranaense	10.30–02.00
92) PRL3	11950	25.10	7.5	R. Ministerio da Educação, Rio	08.30–05.00
98) PRB24	11965	25.07	50	R. Record, São Paulo	09.00–03.30
100) PUB25	12058	24.88	2	Agencia Nacional, São Paulo	
100) PSF	14690	20.45	20	Agencia Nacional	22.30–23.30
99) ZYZ32	15105	19.86	7.5	R. Rural Brasileira	11.30–03.00
125) PRC2	*15115	19.85	7.5	R. Soc. Guiracá, Curitiba	
124) ZYN31	*15125	19.83		R. Soc. da Bahia, Salvador	
98) PRB23	15135	19.82	10	R. Panamericana	09.00–03.30
101) ZYK33	15145	19.81	15	R. Jornal do Comercio, Recife	09.00–04.00
102) ZYB9	15155	19.80	25	R.Dif. de São Paulo	09.00–03.00
103) ZYN7	15165	19.78	1	R.Cl. do Ceará	21.00–03.00
126)	*15175	19.76	1	Emis. Tupanci, Pelotas	11.00–03.00
93) PRK9	15190	19.75	5	R. Inconfidencia, Belo Horizonte	09.00–04.00
100) ZYZ20	*15205	19.74	10	Agencia Nacional	
77) ZYY9	*15215	19.71	2.5	R. Timbira, São Luiz	
63) ZYN30	*15225	19.70	10	R. Cultura da Bahia, Salvador	
31) ZYE21	15245	19.68	10	R. Marajoara, Belem	11.00–01.00
105) PRG9	*15265	19.66	50	R. Excelsior, São Paulo	
107) PRL8	15295	19.62	10	R. Nacional, Rio	08.00–04.00
89) ZYR228	*15325	19.58	1	R. Gazeta de São Paulo	
120) ZYU60	15335	19.56	10	R. Farroupilha, Porto Alegre	08.55–20.30
104) ZYC9	15370	19.52	10	R. Tupi, Rio de Janeiro	08.00–05.00
127) ZYR206	15415	19.46	1	R.Cl. Ribeirão Preto	12.00–01.00
100) ZYN32	15445	19.43	10	R. Nacional de Brasilia	08.00–03.00
116)	*15445	19.43	50	R. Rio, Rio de Janeiro	

	Call	kc	m	kW	Name	h of tr.
115)	ZYR97	*17705	16.94	10	R. Novo de Julho	
128)	ZYR232	17725	16.93	1	R. Universitaria Santos Dumont, São Jose dos Campos	23.00–02.00
100)		*17775	16.90	10	Agencia Nacional, Brasilia	
100)		*17775	16.90	10	Agencia Nacional, Rio de Janeiro	
48)		17795	16.86	5	R.Dif. do Amazonas	10.00–01.00
102)		17815	16.82	10	R.Dif. São Paulo	09.00–03.00
107)	PRL9	*17850	16.81	10	R. Nacional	
92)	PRL2	17875	16.79	7.5	R. Ministerio da Educação, Rio de Janeiro	08.30–05.00
100)	ZYZ41	*21490	14.50	10	Agencia Nacional, Brasilia	
100)		*21500	13.96	10	Agencia Nacional, Brasilia	
100)	ZYA65	*21580	13.90	10	Agencia Nacional, Brasilia	

Medium Waves: °) also on shortwave.

	Call	kc	kW		Call	kc	kW
29)		°540	5	166)	ZYH3	930	1
115)	ZYR98	°540	10	167)	ZYS25	930	1
34)	ZYZ22	°550	10	168)	ZYU102	930	1/0.25
129)	ZYN4	560	1/0.25	58)	PRF4	°940	50
125)	ZYM5	°560	10	98)	PRF5	°960	10/5
130)		580	10	169)	ZYO4	960	10
131)	PRG5	580	1/0.5	170)	ZYF5	960	1/0.25
132)	ZYM3	580	1/0.5	40)	ZYR3	°970	1
133)	ZYM25	580	1/0.5	171)	ZYH32	970	1
134)	ZYD4	580	1/0.5	172)	ZYI26	970	1
64)	ZYZ22	°590	1	173)	ZYI2	970	5
120)	PRH2	°600	50	174)	ZYH21	970	1
135)		620	10	70)	ZYB3	°970	0.25
98)	PRH7	°620	5/10	107)	PRE8	°980	50
136)	ZYX25	630	10	98)	PRB9	°1000	50
137)	ZYV44	630	1	175)	PRB3	1010	2/0.5
138)	ZYA3	630	1	117)	ZYT26	°1010	0.25
139)	PRJ6	630	1	63)	ZYN23	°1010	10/5
140)	ZYM	630	1	176)	ZYO3	1010	5
27)	ZYV29	°630	5	177)		1020	30/20
141)	ZYU37	630	1	178)	PRB8	1030	1/0.25
142)	PRF9	640	2.5	34)	ZYK27	°1030	5
143)	ZYM22	670	10/5	110)	PRD8	°1030	7.5
105)	ZYR56	°670	10	121)	PRG2	°1040	50
144)	ZYK26	680	1	179)	PRD2	1060	10
145)	ZYS65	680	1	180)	PRD7	1080	1
47)	ZYP20	°680	5	181)	ZYN24	1080	1
106)	PRC2	°680	10	182)	ZYB4	1080	1/0.5
41)	ZYH29	°690	10	183)	ZYX7	1080	1/0.25
146)	PRC7	690	25/10	184)	ZYE4	1080	1/0.5
33)	ZYS44	°690	0.25	185)	ZYU67	1080	2/0.5
147)	ZYW3	690	1	186)	ZYV47	1080	1/0.25
36)	ZYR213	°700	50	45)	ZYV52	°1080	0.25
56)	ZYA8	°720	1	187)	ZYK22	1080	1/0.25
94)	PRA8	°720	0.25	188)	ZYR64	1080	1/0.25
90)	ZYU58	°720	50	19)	PRI2	°1090	1
148)		720	1/0.25	68)	ZYT9	°1090	1
149)	ZYW53	730	1	189)	ZYT38	1090	1/0.25
150)		730	1	190)	ZYN25	1090	1
151)	ZYO9	730	1/0.25	24)	ZYI25	°1090	1
152)	ZYR80	730	2	92)	—	1090	1
153)	ZYH8	730	1/0.25	191)	ZYU50	1100	1
88)	ZYO21	°730	1/0.25	105)	PRG9	°1100	50
124)	PRA4	°740	50	46)	PRI4	°1110	10
111)	PRN9	°760	2	192)	ZYT25	1110	1/0.25
101)	PRL6	°780	20/10	193)	ZYS67	1110	1/0.25
20)	ZYR79	°780	0.25	75)	PRF7	°1110	5
25)	ZYV38	°780	0.25	194)	ZYV66	1110	1
92)	PRA2	°800	25	63)	ZYN20	°1120	10
154)	ZYT94	820	1	31)	ZYE20	°1130	10
155)	ZYA4	820	1/0.25	119)	PRH8	°1130	25
156)	ZYK37	820	10	37)	ZYI24	°1130	1
30)	PRI5	°820	0.25	195)	ZYU77	1130	1/0.25
7)	ZYV64	°840	1.25	196)	ZYT34	1130	1/0.25
109)	PRH9	°840	10/5	197)		1140	10
157)	ZYD8	840	10/5	198)	ZYH7	1160	1/0.5
158)	ZYT33	840	1/0.25	199)	ZYS73	1160	1
159)	PRA3	860	50	84)	PRI9	°1160	10
93)	PRI3	°880	50	78)	PRH3	°1160	1
160)	ZYU33	880	10	200)	PRF5	1160	1
89)	PRA6	°890	10/5	201)	ZYA5	1160	1
21)	ZYK20	°890	20	59)	ZYG25	°1160	1
32)		°890	5	83)		°1170	
161)	ZYI23	900	10	202)	ZYI20	1170	1
104)	PRB7	°900	10/5	203)	PRC9	1170	5
162)	ZYR242	900	1/0.5	204)	ZYU72	1170	1/0.25
163)	ZYQ5	900	1/0.25	205)	ZYU38	1170	1/0.25
164)	PRJ3	930	5	206)		1170	1/0.25
165)	ZYM20	930	5	96)	PRE3	°1180	50

	Call	kc	kW		Call	kc	kW
95)	PRB6	°1200	10	65)	PRD4	°1370	1
103)	PRE9	°1200	10	72)	ZYO22	°1370	1
207)	ZYU91	1200	1/0.25	248)	ZYK31	1370	5
100)	PRL8	°1210	10/5	55)	ZYQ3	°1370	1
22)	PRG8	°1210	1/0.5	73)	ZYF3	°1370	5
208)	ZYL9	1210	1/0.5	249)	ZYR212	1370	1
53)	ZYB2	°1210	1	250)	ZYS46	1390	1
113)	ZYZ9	°1210	1	251)	ZYJ2	1390	1/0.5
209)	ZYX	1210	1	252)	ZYK25	1390	1
210)	ZYK23	1210	1/0.5	253)	ZYV49	1390	2
211)		1210	1/0.25	254)	ZYU75	1390	1
114)	PRA9	°1220	50	24)	ZYH30	°1400	5
212)	ZYB21	1240	5	255)		1400	5
7)	ZYV64	°1240	1.25	256)	ZYU55	1400	1
62)	PRF6	°1240	5	112)	PRD5	°1400	10
213)	ZYC4	1240	1/0.5	257)	ZYR224	1400	1/0.25
214)	ZYP4	1240	1/0.5	44)	ZYF21	°1410	1
215)	PRB5	1240	1	258)	PRE7	1410	25/10
216)	ZYU76	1240	1/0.25	259)	ZYH26	1410	10
217)	ZYR84	1240	1/0.25	260)	ZYI4	1420	1/0.25
218)	ZYK36	1240	5/10	261)	ZYU94	1420	1
219)	PRJ2	1250	1	91)	ZYJ7	°1420	5/2.5
220)	PRA5	1260	10/5	262)	PRE2	1430	10
221)		1260	1/0.25	263)		1430	1
222)	ZYG	1260	10	264)	ZYH5	1430	1/0.25
223)	ZYL21	1260	5	97)	PRB2	°1440	20/10
224)	ZYV65	1260	1/0.25	27)	ZYV29	1440	5
79)	ZYX9	°1270	10	265)		1440	10
225)	ZYS23	1270	1/0.25	57)	PRC5	°1450	10
226)	ZYV62	1270	1	266)	PRB4	1450	5/2
227)	ZYU44	1270	1	267)	ZYJ20	1450	1
71)	ZYB5	°1270	1	268)	ZYP36	1450	5/2.5
104)	PRG3	°1280	50	269)	ZYT21	1450	1/0.25
121)	PRE4	°1300	10/5	60)	ZYD9	°1460	0.25
50)	ZYR7	°1300	10	270)	ZYH22	1460	1
228)	ZYX22	1300	1	66)	ZYE2	°1460	0.25
229)	ZYR201	1320	1	271)	PRF2	1460	20
122)	ZYG3	°1320	10	272)	ZYE3	1470	1/0.5
230)	PRH4	1320	1/0.5	273)	ZYD2	1470	1/0.5
231)	ZYT31	1320	1/0.25	1)	PRC6	°1470	1/0.5
47)	ZYZ24	1320	10/5	274)	ZYZ6	1470	1
232)		1320	1	275)		1470	1
233)		1320	10	51)	PRJ4	°1470	0.5
16)	PRI8	°1330	1	276)	ZYN3	1470	1
234)	ZYV59	1330	1/0.35	11)	ZYJ3	°1480	0.5
235)	ZYV33	1330	1/0.5	118)	ZYB20	°1480	1
236)	ZYI5	1330	1/0.5	277)	ZYH20	1480	1
237)	PRC4	1330	1/0.5	49)	PRD3	°1480	5
238)		1330	1/0.5	74)	ZYE22	°1480	0.25
239)	ZYE25	1330	10	77)	PRJ9	°1490	1
108)	PRH6	°1340	25	278)	ZYP29	1490	1/0.5
240)	ZYX2	1340	1/0.25	279)	ZYU46	1510	1/0.25
241)		1340	10	280)	ZYY5	1510	
103)		°1340	1	281)	ZYG20	1510	0.25/1
242)	ZYX5	1340	1/0.25	282)	ZYS9	1540	2.5
61)	PRH5	°1350	5	283)	ZYI	1540	2.5
243)	ZYU85	1350	1	5)	ZYP39	°1550	0.25
244)	ZYN35	1350	5	6)	PRJ5	°1550	0.25
29)	ZYO7	°1350	1	284)	ZYK30	1560	1
245)		1350	1/0.25	285)	ZYN33	1560	1
80)	PRC8	°1360	10	3)		°1570	0.25
246)	ZYH25	1360	10	23)	ZYR44	°1600	0.1
247)	ZYU82	1360	1				

States Abbreviations: AC=Acre, AL=Alagoas, AM=Amazonas, AP=Amapá, BA=Bahia, CE=Ceará, DF=Brasilia, ES=Espirito Santo, GB=Guanabara, GO=Goiás, MA=Maranhão, MG=Minas Gerais, MT=Mato Grosso, PA=Pará, PB=Paraiba, PE=Pernambuco, PI=Piaui, PR=Paraná, RJ=Rio de Janeiro, RD=Rondonia, RN=Rio Grande do Norte, RS=Rio Grande do Sul, SC=Santa Catarina, SE=Sergipe, SP=São Paulo.

Short Waves:

1) C.P. 173, Uberlandia, MG. **Te:** 4466. **Cable:** Radico. **L.P:** Dir. Gen: G. Motta Baptista. Dir. Tec: V. P. Dossena. **D.Prgr: N:** 13.30, 20.00. **Ann:** "R. Difusora Brasileira, PRC6 e ZYV30, Uberlandia, MG". **V.** by letter. **Re.** in P, Sp. Prgr.schedule free.
2) Itacoatiara, AM – 3) Parintins, AM.
4) Ed. S. José, Carauru, PE. **L.P:** Dir: J. Almeida.
5) Rua Francisco da Rosa 84, São João de Miriti, RJ.
6) C.P. 105, Limeira, SP. **L.P:** Dir: V. Bortolan.
7) C.P. 377, Governador Valares. **Te:** 3211. **Cable:** Repumm. **L.P:** Dir. Gen: L. Vilela. St. Mgr: F. L. Teixeira. Dir. Tec: L. Rocha. **D.Prgr: N:** 11.05, 16.00, 21.35, 23.30, 01.10. **Ann:** "R. Por um Mundo Melhor, nas frequencias de 840kc, em onda media, e ZYV64, Onda Tropical, 2390kc ZYV71, uma emissora Católica a Serviço do Brasil".

Int-Sig: Jingles. **V.** by letter. Rp. Recorded or written re. in E or P accepted.
8) Rua R. Rocha Medeiros 1113, Monte Alto, Jabotical, SP.
9) Mossoró, Pra. Rafael Fernandes, RN – 10) C.P. 77, Amparo, SP.
11) C.P. 909, Anápolis, GO. **Te:** 2263. **Cable:** Caraja. **L.P:** Pres: Dep. P. A. Gonzaga Jaime. St. Mgr: N. E. de Oliveira. Dir. Tec: J. S. Vilarinho. **D.Prgr:** N: 11.25, 12.25, 13.25, 14.00, 14.45, 16.25, 17.25, 18.25, 19.25, 20.25, 21.30, 23.25, 00.25, 01.25. **Ann:** "ZYJ3 e ZYW32, emissoras de ondas média, curta e FM de sua R. Carajá de Anápolis". V. by letter. Recorded re. in P, Sp or E. accepted.
12) C.P. 6, Leopoldina, MG. **Cable:** Sirena. **L.P:** Dir. Gen: C. Geraldo. **D.Prgr:** N: 11.00, 14.00, 21.00, 01.00. **Ann:** "R. Sirena, do Sistema Radioeducativo Nacional do Ministerio da Educação e Cultura". V. by letter. Re. in P, Sp or E. **Pub:** Prgr.schedule free.
13) C.P. 95, São Carlos, SP. **L.P:** Pres: L. Zambel. V. by letter.
14) Av. Pedro II 220, São Cuiz, MA. **L.P:** Dir: R. Bacelar.
15) Rua Dr. E. Cordeiro 27, Rio Bonito, RJ. **L.P:** Dir: E. R. Vieira.
16) C.P. 246, Aracatuba, SP. **Te:** 2270. **Cable:** Radiocultura. **L.P:** Dir. Gen: A. Barbosa. St. Mgr: J. B. Brussolo. Dir. Tec: F. C. Arroyo. **D.Prgr:** N: 11.00, 12.00, 13.00, 14.00, 15.15, 18.00, 19.00, 20.00, 21.00, 21.45, 23.30, 01.30. **Ann:** "R. Cultura de Aracatuba, ondas medias e tropicais". V. by letter. Recorded re. in P or E accepted.
17) Rua Miranda Azevedo 311, Sorocaba, SP. **L.P:** Dir: O. Bismara.
18) Bragança Paulista, SP – 19) Rua Paes Leme 20, Marilia, SP. **L.P:** Dir. Gen: O. Lignellis – 20) C.P. 814, Ribeirão Preto, SP.
21) Av. Cruz Cabugá 394, Recife, PE. **Te:** 4-1522. **Cable:** Diarbuco. **L.P:** Dir. Gen: I. de Albuquerque. St. Mgr: F. Trigueiro. Dir. Tec: Dr. I. Olimpiew. V. by letter. Rp.
22) Rua Padre Anchieta 741, Bauru. **L.P:** Pres: M. Leuzzi Jr. V. by QSL-card. Re. in P, Sp, E, F.
23) Praça NS Aparecida 315, Aparecida. **Te:** 2197. **L.P:** Dir. Gen: R. Leme Galvão. **Ann:** "A R. Aparecida, a mais poderosa emissora catolica das Americas". V. by letter. Rp. **Pub:** Prgr.schedule free.
24) Praça Pio X, 2° andar, Natal, RN. **L.P:** Dir. Gen: E. de Arauja Sales. Dir. Tec: F. de Souza Segundo. V. by letter. Re. in Sp, P.
25) C.P. 401, Uberlandia, MG. **Te:** 2340. **L.P:** Dir: N. A. dos Santos. V. by letter.
26) C.P. 57, Crato, CE. **L.P:** Pres: V. de Araujo Matos.
27) Rua Coromandel 117, Belo Horizonte, MG. **Te:** 48595. **L.P:** Dir. Gen: J. Carneiro. Dir. Tec: Deosmar. **Ann:** "R. Itatiai, a emissora Brasileira que mais cresce". V. by letter. Rp.
28) Rua Pedro II 148, Guarulhos. **L.P:** Dir: P. C. Nogueira.
29) C.P. 160, Campina Grande, PB. **Te:** 1960. **L.P:** Dir. Gen: H. C. Motta. Dir. Tec: Dr. I. Olimpiew. Dir. Prgr: A. Salles. **D.Prgr:** N: 10.00, 15.30, 20.05, 01.00. **"A Voz do Brasil":** 22.00. **Ann:** "R. Borborema, Emissoras Associadas de Campina Grande". V. by letter. Rp. **F.Pl:** 5kW on mw, TV st.
30) C.P. 5, Pres. Prudente, SP. **L.P:** Dir. Gen: A. Campos. **Ann:** "R. Presidente Prudente, uma das Emissoras Coligadas, falando para todo o Brasil" or "PRI5 e ZYR59, R. Difusora de Presidente Prudente, uma das Emissoras Coligadas, transmitindo simultaneamente em ondas médias e curtas 1240kc, 3335kc".
31) Travessa Campos Sales 100, Belém, PA. **Te:** 3422. **Cable:** Provan. **L.P:** Dir. Gen: M. Trindade. Dir. Prgr: A. Sade. Dir. Tec: Dr. I. Olimpiew. **D.Prgr:** N: 10.05, 12.00, 14.05, 16.00, 18.00, 20.00, 21.55, 23.30, 01.00 (Sun 16.00, 22.00). V. by letter. Rp.
32) C.P. 414, Londrina, PR. **Te:** 1842. **L.P:** Dir: E. Afonso. **D.Prgr:** N: 10.25, 13.55, 16.55, 21.55, 02.00, 02.55. V. by QSL-card. Rp.
33) C.P. 1870, Londrina, PR. **L.P:** Dir. Gen: Dr. R. Zanoni.
34) C.P. 1313, Recife, PE. **L.P:** Dir. Gen: A. T. Costa. St. Mgr: G. Correia. Dir. Tec: F. Saboia. **D.Prgr:** N: Every h on the h. **Ann:** "Esta é a sua R. Olinda, ZYK27, ZYK28, a emissora da familia pernambucana, transmitiendo simultaneamente em ondas médias, curtas e FM" or "R. Olinda, ZYK27, ZYK28, a mais popular emissora pernambucana". V. by letter. Rp. Recorded re. in P, Sp, F, J, E or Dutch accepted
35) C.P. 125, Teresina, PI. **L.P:** Dir. Gen: W. S. Guimaraes.
36) Av. Pres. Vargas 417, Rio de Janeiro, GB. **L.P:** Dir: A. Gueiroz.
37) Praça Rafael Fernandes 8, Mossoró. **L.P:** Dir. Gen: J. N. da Escossia. Mgr: J. M. de Souza Luz. Dir. Tec: C. Alberto. **Ann:** "R. Tapuyo de Mossoró, ondas médias e curtas, falando para todo o Brasil. A mais popular emissora mossoroense". V. by letter. Recordings accepted.
38) C.P. 152, São Luiz, MA. **L.P:** Dir: R. Bacelar. V. by letter.
39) C.P. 625, Campinas, SP. **L.P:** Dir. Gen: S. Pedroso. **Ann:** "ZYV3, R. Brasil de Campinas ZYR39, R. de Valinhos emissoras brasileiras da Organização Irmaos Pedroso". V. by letter.
40) C.P. 32, Feira de Santana. **Te:** 168. **L.P:** Dir. Gen: F. A. de Grottamare. Dir. Tec: D. Nogueira. **D.Prgr:** N: 10.30, 11.00, 13.00, 15.00, 16.00, 18.00, 20.00, 23.00, 01.00. **Ann:** "ZYR3 e ZYN37 ondas média e curta da R. Sociedade de Feira de Santana a Voz de Comando a Serviço da religião e da patria". **Int-Sig:** Vibraphone. V. by letter. Recordings accepted. Rp.
41) Rua P. Pereira 383, Fortaleza, CE. **L.P:** Dir. Gen: M. S. Pimentel. **D.Prgr:** "Jornal das Tres Americas" (News in Sp, E, P): 02.23–02.36. N. in Portuguese: W 14.50, D 01.35. **Ann:** "R. Dragão do Mar, a emissora do Ceará que o mundo escuta". V. by letter.
42) Av. Liberdade 1034, São Paulo. **Te:** 32-8708. **L.P:** Dir: C. Mero.
43) C.P. 69, Guaporé, Porto Velho, RD. V. by letter or QSL-card.
44) Rua do Apium 118–130, São Luiz, MA – 45) Av. Vergilio Franco 375, Cambuquira, MG.
46) Palacio do Governo, João Pessoa, PB. **D.Prgr:** N: 21.45, 24.00, 01.35. **Ann:** "PRI4, R. Tabajara da Paraiba transmitindo em ondas curtas e médias". V. by letter. Re. in E, Sp, F.
47) Av. Rio Branco 277, 6°, Rio de Janeiro, GB. **L.P:** Dir. Gen: I. D. Mello, A. de Lima Santana. **Ann:** "R. Copacabana, a emissora do Otimismo".
48) Eduardo Ribeiro 566, Manaus, AM.
49) Praça D. Pedro II°, 17, Petropolis, RJ. **Cable:** Difusora. **L.P:** Dir. Gen: W. Carneiro Malta. **D.Prgr:** N: 16.00, 23.25, 01.05, 02.45. **Ann:** "Emissoras de ondas médias e curtas da Petropolis R. Difusora, o microfone lider do Estado do Rio". V. by letter.
50) C.P. 578, Fortaleza, CE. **L.P:** Dir. Gen: F. B. Barreto – 51) C.P. 31, Parnaiba, PI. V. by letter – 52) C.P. 38, Uberaba, MG. **L.P:** Dir: Q. Jardim.
53) C.P. 102, Varginha, MG. **L.P:** Dir. Gen: A. L. Bittencourt. **D.Prgr:** N: 14.15, 21.15. **Ann:** "Emissoras de Varginha ZYB2 e ZYV56, em ondas curtas e médias". V. by letter. Re. in P, Sp, E.
54) Boa Vista, RS.
55) Rua Areolino de Abreu 1101, Terezina, PI. **Te:** 3-16. **Cable:** Radiofusora. **L.P:** Dir. Gen: Dr. J. P. de Saboia. Dir. Tec: Dr. I. Olimpiew. Dir. Prgr: Dr. W. S. Guimorães. **D.Prgr:** N: 09.00, 09.45, 15.00, 15.45, 21.10, 21.30, 00.00, 01.00. V. by letter. Rp.
56) Rua V. do Rio Branco 247, Taubaté, SP. **Te:** 302. **L.P:** Dir. Gen: F. A. Queiroz Nery. Dir. Tec: A. R. Gonçalves. **Ann:** "ZYA8 e ZYR61 ondas médias e curtas, da R. Difusora Taubaté, S. Paulo, Brasil". V. by QSL-card. Recordings accepted.
57) Av. Pres. Vargas 351, Belém, PA. **Te:** 3263. **L.P:** Dir. Gen: E. Proença. St. Mgr: Dr. A. Henrique. Dir. Tec: M. Franco. **D.Prgr:** N: 10.15, 15.10, 23.35. **Ann:** "PRC5 R. Clube do Pará, Belém, Brasil". V. by letter. Rp.
58) Av. Rio Branco 110, Rio de Janeiro. **Te:** 22-1818. **D.Prgr:** N: 10.55, 15.30, 21.50, 00.55. V. by letter.
59) Rua Teodoro Pacheco 1179, Teresina, PI. **L.P:** Dir: F. Das Chagas Mendes. **D.Prgr:** N: 09.25, 00.05, 01.30.
60) Departamento do Imprensa e Radiodifusão do Acre, Rio Branco.
61) C.P. 143, Poços de Caldas, MG. **L.P:** Dir: J. B. Rocha. V. by letter or QSL-card.
62) Av. Eduardo Ribeiro 566, Manáus, AM. **Te:** 1135. **Cable:** Radio Bareh. **L.P:** Dir. Gen: E. C. Barahuna. Dir. Prgr: J. F. Pires. Dir. Tec: Dr. I. Olimpiew. **D.Prgr:** mw: 09.00–03.00. N (W only): 10.00, 11.30, 13.30, 16.30, 19.30, 22.30, 23.30, 01.00. V. by letter. Rp.
63) Av. 7 de Setembro 311, Salvador, BA. **Te:** 50125. **Cable:** Radiocultura. **L.P:** Gen. Mgr: J. R. Rocha. St. Dir: M. M. da Silva. **D.Prgr:** N (on 1120/9595/15225kc): 15.20, 21.20, 23.00, 01.00. V. by QSL-card. Rp. Recorded re. in P, Sp, E, F, I, accepted.
64) Av. Pres. Vargas 417A, Rio de Janeiro, GB. **L.P:** Pres: J. J. de Carvalho. V. by letter or QSL-card.
65) C.P. 22, Araraquara, SP. **Te:** 2828. **L.P:** Dir. Gen: R. Lupo. Dir. Tec: J. A. Quirino dos Santos. **D.Prgr:** N: 14.30, 15.30, 23.00. **Ann:** "Estas são Emissoras da R. Cultura Araraquara, PRD4 ondas médias e ZYR60 ondas curtas e PRD4-FM". V. by letter. Recordings accepted.
66) Av. Candido Mendes, Macapa, AP. **L.P:** Dir: A. Nogueira de Souza. **D.Prgr:** N: every h on the h and W 21.30. V. by letter. **F.Pl:** 10kW sw-tr.
67) Praça J. Calheiros 8, Penedo, AL. **L.P:** Dir: C. H. V. Guimaraes. V. by letter. Re. in E, P.
68) C.P. 262, Juiz de Fora, MG. **L.P:** Dir. Gen: Dr. S. V. Mendes. **D.Prgr:** N: 12.00, 15.10, 20.00, 22.30, 00.30. **Ann:** "Emissoras Brasileiras de ondas curtas e médias da R. Industrial de Juiz de Fora, Estado de Minas Gerais, uma das Componentes do Organização Sergio Mendes, a serviço do Brasil". V. by letter.
69) Sobral, CE – 70) Rua Luiz Gama 492, Lins, SP. **L.P:** Dir: H. Noronha Franco.
71) Av. Deodoro 245, Natal, RGN. **Te:** 2582. **Cable:** Radio Poti. **L.P:** Dir. Gen: L. M. Alves. Dir. Tec: Dr. I. Olimpiew. **D.Prgr:** mw 09.00–03.00. N: W 09.35, 12.30, 15.00, 15.55, 01.05. Sun 11.35, 01.05. V. by letter. Rp.
72) Esc. Estiva, Vitoria, ES. **Ann:** "Estações de ondas médias e curtas R. Capixaba, Vitória, Brasil" – 73) Av. J. de Castilhos 1576, Caxias, MA.
74) Rua Dr. Candido Rodrigues 87, Bragança, PA. **Te:** 112. **L.P:** Dir: J. Batista Zechin. **D.Prgr:** N: 09.55, 10.55, 11.55, 19.55, 24.00. **Ann:** R. Educadora de Bragança ZYE22, ZYE23 ondas médias e tropical..., a Emissora Católica da familia brasileira". V. by letter. Re. in P.
75) C.P. 79, Campos, RJ. **Te:** 1582. **L.P:** Dir. Gen: M. F. Sampaio. Dir. Tec: N. Silva. **D.Prgr:** N: 09.45, 10.30, 13.00, 16.00, 18.00, 22.55, 01.30. **Ann:** "PRF7, R. Cultura de Campos pioneira e lider do estado do Rio". V. by letter. Recordings accepted.
76) Av. C. Gomez, Porto Velho, RD. **Te:** 272. **L.P:** Dir: J. Batista.
77) Edif. Matos Carvalho 3° andar, São Luiz, MA. **Te:** 1160. **L.P:** Dir: J. Ferreira. **D.Prgr:** Sun 23.30–24.00 English; Mon 01.00 prgr.

for foreign listeners in E, P, Sp.
78) C.P. 126, Cuiaba, MT. L.P: Dir: J. Oliveira.
79) C.P. 330, Goiania, GO. Te: 6-2555. Cable: "Errebece". L.P: Dir. Gen: A. N. Goyana. St. Mgr: N. P. Santos. Dir. Tec: J. Fleury. D.Prgr: N: W 12.00, 15.00, 21.54, 23.24, 01.04, 03.00. Sun 11.25, 12.25, 13.25, 14.25, 15.54, 21.25, 22.25, 23.24. Ann: "Sintonizam R. Brasil Central, Goiânia, ondas média, curta, tropical e frequencia modulada, operando em Goiânia, Capital do Estado de Goias". V. by QSL-card. Recordings accepted.
80) Av. Treze de Maio 23, Rio de Janeiro, GB. Te: 32-8199. Cable: Radioguan. L.P: Dir. Gen: A. de Carolia. St. Mgr: D. Tanus. Dir. Tec: Dr. U. B. Pinheiro. D.Prgr: 24 h. N: 11.30, 00.30, 03.00. Ann: "PRC9, R. Guanabara, Rio de Janeiro Brasil". V. by QSL-card, Rp. Written re. in P, Sp preferred.
81) Rua Estvão a correa 478, Aquidauana, MT – 82) Manaus, AM.
83) Av. Anhanguera 92, Goiania, GO. L.P: Dir: J. B. Texeira.
84) C.P. 80, Vitoria, ES. L.P: Dir: H. Blachman.
85) Rio de Janeiro, GB – 86) C.P. 225, Petropolis, RJ. L.P: Dir: N. Paiva – 87) Guiábba, MT. L.P: Dir: V. D. Cezar.
88) Praça Costa Pereira 132, Vitoria, ES. Te: 3406. Cable: Ravito. L.P: Dir. Gen: N. Bastos. Dir. Prgr: D. Bastos. Dir. Tec: H. Pagliari. D.Prgr: mw: 09.00–03.00; N: 11.00, 12.00, 15.00, 16.00, 17.00, 18.00, 19.00, 20.00, 21.55, 00.30 (Sun 15.30, 22.00). Ann: "Ouvem a R. Vitoria, da capital do Espirito Santo, Brasil". V. by letter. Rp.
89) Av. Casper Libero 88, São Paulo. Te: 355151. Cable: Radigazeta. L.P: Dir. Gen: I. F. de Campos. St. Mgr: J. F. Jorge. Dir. Tec: V. de Marco. Dir. Tec (TV): C. Paiva. D.Prgr: N: 15.00, 19.00, 01.30, also every h on the h. Ann: "PRA6 R. Gazeta, São Paulo, a emissora da Elite, simultaneamente com ondas médias e curtas". Int-Sig: First movement of "Concert in B" by Tjaikowsky. V. by QSL-card. Rp. Re. in P, E, F, Sp.
90) Rua Caldas Jr. 219, Porto Alegre, RGS. L.P: Dir. Gen: E. Degrazia. Dir. Tec: B. F. Steiger. D.Prgr: N: 10.00, 16.00, 22.50, 02.00. Ann: "Emissoras Brasileiras de ondas médias e curtas de R. Guaiba de Porto Alegre, Rio Grande do Sul, Brasil". V. by letter or QSL-card. Pennants for distant and interesting reports. Recordings accepted.
91) C.P. 45, Floranopolis, SC. L.P: Dir: C. Bonetti. V. by QSL-card.
92) Ministerio da Educação e Cultura, Praca da Republica 141-A, Rio de Janeiro, GB (Owned & operated by The Federal Gov, Ministry of Education). L.P: Dir. Gen: Y. Linhare. Mgr: E. Viana. Dir. Tec: M. Casé. D.Prgr: "Musica Brasileira". Mon–Thurs 19.30–20.30 on 17875kc with ann. in German (Mon), English (Tues), French (Wed), Spanish (Thurs). N: 12.00, 13.30, 16.45, 18.00, 21.25, 23.55, 02.00. Nat. Prgr: Mon, Wed, Fri 23.30. Ann: "R. Ministerio da Educação e Cultura, transmitiendo pela Cultural, dos que vivem em nossa tena, pelo progresso do Brasil". V. by letter.
93) C.P. 1027, Belo Horizonte, MG. Te: 21589. L.P: St. Mgr: A. Gatti. Dir. Tec: A. P. da Piedade. D.Prgr: N: 10.05, 11.00, 15.15, 16.00, 21.55, 01.00, 02.00. Ann: "Aqui falam PRI3, PRK5, Emissoras de ondas curtas e medias da R. Inconfidencia, Belo Horizonte, Minas Gerais, Brasil". Int-Sig: Gong. V. by QSL-card or letter. Re. in E.
94) Av. Cruz Cabuga 394, Recife, PE. Te: 4-1522. Cable: Diarbuco. L.P: Dir. Gen: H. C. Mota. Dir. Prgr: I. de Albuquerque. Dir. Tec: Dr. I. Olimpiev. D.Prgr: N: 10.30, 15.55, 16.10, 21.30, 23.30, 00.35, 02.00. V. by letter. Rp.
95) C.P. 8087, São Paulo, SP. Te: 334175. Cable: Santalina. L.P: Dir: M. Leuzzi Jr. V. by QSL-card.
96) Rua V. Martins 22, Jardin Botanico, Rio de Janeiro. Te: 468110. L.P: Dir. Gen: R. do Amaral. Dir. Tec: L. A. de Medeiros. D.Prgr: N: Every h on the h. Ann: "R. Globo do Rio de Janeiro, uma emissora de "O Globo", o maior jornal do Pais". V. by QSL-card. Re. in P, Sp, E, F.
97) C.P. 448, Curitiba, PR. L.P: Dir: R. C. Santos. V. by QSL-card.
98) Av. Miruna 713, São Paulo, SP. Te: 613667. Ann: "PRH7 R. Panamericana, São Paulo, Brasil, a mais geuida". V. by letter.
99) Ministerio da Agricultura, Largo da Misericordia 4° andar, Rio de Janeiro. Ann: "R. Rural, Emissora do Agricultor do Ministerio da Agricultura, Rio de Janeiro, Brasil". V. by QSL-card.
100) Setor Radio e TV, C.P. 95, Brasilia, DF. L.P: Dir: H. Cyrinho. D.Prgr: N: (R. Nacional Brasilia): 11.00, 12.00, 13.00, 15.00, 16.00, 17.00, 18.00, 19.00, 20.00, 21.50, 23.00, 01.00. Spanish: Sat 03.00–04.00.
101) Rua Marquez do Recife, PE. L.P: Dir. Gen: Dr. F. Pessoa de Queiros. Ann: P: "R. Jornal do Comércio, Recife, Pernambuco, ondas médias e curtas" or "Emissoras da R. Jornal do Comércio, Pernambuco, a voz mais potente de Brasil". V. by QSL-card.
102) C.P. 252, 4142, São Paulo. Te: 34-4181. L.P: Dir: E. Monteiro. V. by QSL-card or letter.
103) C.P. 222, Fortaleza, CE. Te: 1-3125. Cable: Prenove. L.P: Dir. Gen: M. E. P. Campos. Dir. Prgr: R. Siqueira. Dir. Tec: I. Olimpiew. D.Prgr: mw: 08.00–03.00. N: 08.45, 09.00, 11.00, 13.00, 15.30, 18.00, 18.55, 20.00, 21.50, 23.30, 00.30. V. by letter. Rp.
104) Av. Venezuela 43, Rio de Janeiro, GB. Te: 43-1309. L.P: Dir. Gen: N. Bastos. Dir. Prgr: R. Rezende. Dir. Tec: Dr. I. Olimpiew. D.Prgr: N: W 10.00, 10.55, 15.00, 21.50, 23.55, 00.05, 00.35, 04.50. Sun 10.00, 15.00, 21.55, 00.30, 01.30, 03.25. Ann: "R. Tupi do Rio de Janeiro, o Cacique do Ar". V. by letter. Rp.
105) Rua Sebastião Pereira 218, São Paulo. L.P: Dir: V. C. Petrelia Geraldino Jr. Ann: "PRG9, R. Nacional, São Paulo, Brasil". V. by QSL-card and letter. F.Pl: 150kW on mw.
106) C.P. 1164, Porto Alegre, RS. Cable: Pioneira. L.P: Dir: M. Sirotzky S. Dir. Tec: H. Carlos S. D.Prgr: N: 10.00, 15.00, 01.30. V. by letter. Rp.
107) Praça Maua 7, 19–22° andar, Rio de Janeiro. Te: 438850. L.P: Pres: S. C. Lopes. Dir: M. Aréas. Dir. Tec: J. Nobrega. D.Prgr: mw: 24 h. N: W 09.05, 11.00, 13.00, 15.55, 16.50(Sat only), 17.00*, 18.00*, 19.00*, 20.30*, 22.00, 23.25, 01.05, 04.00. Sun 09.05, 15.55, 21.00, 23.35. *=not Sat. Ann: "Ouvem R. Nacional, Rio de Janeiro, Brasil, por suas emissoras de ondas curtas, médias e frequência modulada". Int-Sig: First movement of the Brazilian musical poem "Luar do Sertão". V. by QSL-card.
108) C.P. 1753, Belo Horizonte, MG. Te: 2-2445. Cable: Radio Guarani. L.P: Dir. Gen: P. Cabral de Araujo. Dir. Tec: Dr. V. P. Netto. D.Prgr: N: 03.00, 03.30, 04.00, 05.00, 06.00, 07.00, 08.00, 09.30, 10.05, 11.00, 11.30, 12.30, 15.00, 19.15, 20.55, 00.30, 01.00. V. by letter. Rp.
109) C.P. 372, São Paulo, SP. Te: 80-1613. Cable: Radiantes. L.P: Pres: J. Jorge Saad. Dir. Tec: L. Aurani. D.Prgr: N: 10.00, 21.50, 23.00, 02.50. Ann: "PRH9, R. Bandeirantes, a mais popular emissora Paulista". Int-Sig: Vibraphone and organ. V. by QSL-card or letter. Recordings accepted.
110) Rua Riachuelo 48, Rio de Janeiro, GB. Te: 52-8021. L.P: Dir: R. Berardo.
111) Departamento de Segurança Nacional, Rua da Relação, Rio.
112) Av. Erasmo Braga 118, Rio de Janeiro, GB. Te: 31-1264. L.P: Dir. Gen: W. Cunto. St. Mgr: A. L. Madeira. Dir. Tec: P. D. da Silva Filho & H. de Paula. D.Prgr: N: 5 min before the h from 10.55. Ann: "R. Roquette Pinto, emissora do Estado da Guanabara, ondas médias 1400kc, ondas curtas 9515kc onda de 31m, e FM 94.1Mc, no ano do IV Centenario da cidade do Rio de Janeiro (1965)". V. by letter. Prgr.schedule free. Recordings accepted. Re. in P.
113) C.P. 471, Curitiba, PR. Te: 41393. L.P: Dir: N. Chede. D.Prgr: mw: 09.00–03.00. ZYS47 R. Curitibana: 09.00–02.00. Ann: "Emissoras de ondas curta, médias e frequencia modulada da R. Emissora Paranaense, Curitiba, Paraná, Brasil". V. by letter and QSL-card. Re. in Sp, P, I, E, F, G.
114) Rua Mayrink Veiga 15, Rio de Janeiro. Te: 235991. L.P: Dir: M. Leuzzi Jr. D.Prgr: mw: 24 h. Ann: "Transmite a R. Mayrink Veiga do Rio de Janeiro, PRA9 onda média, ZYZ27 e ZYZ28 ondas curtas". V. by QSL-card. Rp. Re. in P, E, F, Sp.
115) Rua Wenceslau Braz. 78, São Paulo. Te: 333246. L.P: Dir: D. A. Macedo, A. Zioni. Dir. Tec: A. A. Bouczan. D.Prgr: N: Every half h. Ann: "R. Nove de Julho de São Paulo, Brasil". V. by letter. Rp.
116) Rio de Janeiro, GB.
117) C.P. 331, Florianopolis, SC. L.P: Dir. Gen: Dr. P. K. Bornhausen. Ann: "Emissoras brasileiras de onda média e curta da R. Diario da Manhã, de Florianópolis, Santa Catarina" or "Estações de Florianópolis da R. Diario de Manhã". V. by QSL-card.
118) C.P. 443, Manaus, AM. Te: 2770 – L.P: Dir. Gen: J. de Sousa Lima. Dir. Tec: F. Bazerra. D.Prgr: N: 13.30, 16.00, 19.30, 21.30, 00.30, 02.45. Ann: "Esta é a R. Rio Mar de Manaus, Amazonas, Brasil, operando com suas estações de ondas médias e curtas, ZYB20 e ZYB22, nas frequencias, respectivamente, de 1480kc e 9695kc". V. by QSL-card. Re. in P, E, Sp.
119) Ministerio de Trabalho, Rio de Janeiro. Ann: "Escutam a R. Maua, a emissora do trabalhador".
120) Rua 7 de Setembro 1123, Porto Alegre, RGS. Te: 5177. Cable: Radiofar. L.P: Dir. Gen: N. D. de Oliveira. Dir. Prgr: J. M. Viloni. Dir. Tec: Dr. I. Olimpiew. D.Prgr: mw: 09.00–04.00. N: W 10.00, 11.00, 11.55, 13.00, 14.00, 15.55, 17.00, 18.00, 19.00, 20.00, 21.50, 23.30, 00.30, 01.30, 01.40, Sun 10.00, 15.55, 21.50. Ann: "R. Farroupilha, Porto Alegre, Brasil". V. by letter. Rp. Pub: Prgr. on request.
121) Rua 7 de Abril 230, São Paulo. L.P: Pres: E. Monteiro. Ann: "PRE4, R. Cultura de São Paulo, transmitiendo em ondas médias, curtas e frequencia modulada".
122) C. P. 62, Goiania, GO. Te: 6-6042. Telex: 285. Cable: Folhago. L.P: Dir. Gen: Dr. F. Braga Sobrinho. Dir. Prgr: J. Cavalcante. Dir. Tec: Dr. V. P. Netto. D.Prgr: N: 11.25, 12.25, 13.25, 14.25, 15.00, 16.25, 17.25, 18.25, 19.25, 20.25, 21.25, 23.25, 01.00. Ann: "Sintonizam R. Clube de Goiania, Rede Nacional de Emissoras Associadas, falando para o Brasil". V. by letter. Rp. – 123) Curitiba.
124) Rua Carlos Gomes 57. Salvador, BA. Te: 3-3521. Cable: Gremio. L.P: Dir: R. Xavier. D.Prgr: ZYN31 at present inactive due to reconstruction of tr. V. by letter. Rp.
125) C.P. 1053; Curitiba, PR. L.P: Dir: A. R. de Assis – 126) Rua 15 Novembro 707, RS. L.P: Dir: H. R. Larea.
127) C.P. 18, Ribeirão Preto, SP. Te: 2879. L.P: Dir. Gen: J. Laureano. St. Mgr: M. Simoes Filho. Dir. Tec: W. L. Perin. Ann: "PRA7, R. Clube de Ribeirão Preto, onda média de 730kc e ZYR 206, onda curta de 15415kc". V. by letter.
128) R.U.S.D. – I.T.A. São José dos Campos, SP. Te: 450. L.P: Dir. Gen: M. R. Cherubini. Dir. Tec: M. F. Gonzales. D.Prgr: International Prgr: "Isto é o Brasil" D. 23.30 (Mon Spanish, Tues

German, Wed Italian, Thurs French, Fri English, Sat Portuguese). **Ann:** "Ouvem a ZYR232, RUSD, emissora construida dirigida e operada por alunos do ITA, e que transmite na freq. de 17725kc, faixa de onda de 16 metros". **V.** by letter and QSL-card. Recordings accepted. Rp. F.Pl: 3kW

Medium Waves:
129) **R. Soc. Passos**, Passos, MG – 130) **R. Emis. de Recife**, Recife, PE – 131) **R. Atlantica**, C.P. 7, Santos, SP – 132) **R. Cataguazes**, Cataguazes, MG – 133) **R. Dif. Brasileira**, Prata, MG – 134) **R. Londrina**, Pr – 135) **R. Assunção Cearense**, Fortaleza, CE – 136) **R. Dif. Cuiaba**, Cuiabá, MT – 137) **R. Dif. Triangulina**, Uberaba, MG – 138) **R. Dif. Cambará**, Cambará, PR – 139) **R. Dif. Sergipe**, Aracaju, SE – 140) **R. Mirador**, Rio Sul, SC – 141) **R. Santamariense**, Santa Maria, RS – 142) **R. Dif. Portoalegrense**, Rua Uruguai 155, Porto Alegre, RS – 143) **R. Cultura de Sergipe**, Aracaju, SE – 144) **Empreza Jornal do Comercio**, Limoeiro, PE – 145) **R. Soc. Ponta Grossa**, Ponta Grossa, PR – 146) **R. Mineira**, Belo Horizonte, MG – 147) **R. Cl. de Lages**, Lages, SC – 148) **R. Bela Vista**, Uberlandia, MG – 149) **R. Dif. de Minas Gerais**, João Monlevade, MG – 150) **R. Nordeste**, Macau, RN – 151) **Soc. de R. Tubá**, Tubarão, SC – 152) **Soc. R. Hora Certa**, Praça da Liberdade 61–7°, São Paulo, SP – 153) **R. Marumby**, Curitiba, PR – 154) **R. Universal**, Santos, SP – 155) **R. Dif. Paraisense**, São Sebastião do Paraiso, MC – 156) **Universidade de Recife**, Recife, PE – 157) **R. Exelsior da Bahia**, Salvador, BA – 158) **R. Rural de Concordia**, Concordia, SC – 159) **R. Mundial**, Av. Rio Branco 181, Rio, GB – 160) **R. Itai**, Itai, RS – 161) **R. Nordeste**, Natal RN – 162) **R. Cult. de Rio Preto**, São José do Rio Preto, SP – 163) **R. Dif. Bento Gonçalves**, Bento Gonçalves, RS – 164) **Radio Araguari**, Araguari Mg – 165) **R. Liberdade de Sergipe**, Aracaju, SE – 166) **R. Cultura de São Vicente**, São Vicente, SP – 167) **R. Paranaense**, Timoneira, PR – 168) **R. Aratiba**, Aratiba, RS – 169) **Governo do Estado de Alagoas**, Maceió, AL – 170) **Emis. Reunidas R. Cultura**, Passo Fundo, RS – 171) **R. Educadora do Nordeste Ltda**, Sobral, CE – 172) **R. Brejui Ltda**, Currais Novos, RN – 173) **R. Imembui S. A**, Santa Maria, RS – 174) **R. Iracema de Fortaleza**, Juazeiro do Norte, CE – 175) **R. Soc. de Juiz de Fóra**, Juiz de Fora, MG – 176) **R. Chavantes**, Ipameri, GO – 177) **R. Campos Gerais**, Curitiba, PR – 178) **R.** Rio Preto, Sao José de Rio Preto, SP – 179) **R. Emis. Metropolitana**, Rio de Janeiro, GB – 180) **R. Cl. de Sorocaba**, Sorocaba, SP – 181) **R. Cultura de Feira de Santana**, F. Santana, BA – 182) **R. Cl. de Patos**, Patos, MG – 183) **R. Teofilo Otoni**, Teofilo Otoni, MG – 184) **R. Soc. de Friburgo**, Nova Friburgo, RJ – 185) **Universidade do Rio Grande do Sul**, Porto Alegre, RS – 186) **R. Minas**, Belo Horizonte, MG – 187) **R. Dif. de Caruaru**, Caruaru, PE – 188) **R. Piratininga de Votuporanga**, Votuporanga, SP – 189) **R. Colon**, Joinville, SC – 190) **R. Cl. de Conquista**, Vitoria da Conquista, BA – 191) **R. Emis. do Nordeste**, Flores da Cunha, RS – 192) **R. Anita Garibaldi**, Florianópolis, SC – 193) **R. Tapajóz Ltda**, Sao José dos Pinhais, PR – 194) **R. Planalto de Araguari**, Araguari, MG – 195) **R. Cultura de Gravatai**, Gravatai, RS – 196) **R. Dif. Vale do Itajai**, Itajai, SG – 197) **R. Acaica**, Belo Horizonte, MG – 198) **R. Presidente Wenceslau**, P. Wenceslau, SP – 199) **R. Cl. de Londrina**, Londrina, PR – 200) **R. Cariri**, Campina Grande, PB – 201) **R. Dif. de Joinville**, Joinville, SC – 202) **R. Dif. de Mossoró**, Mossoró, RN – 203) **R. Educadora de Campinas**, Campinas, SP – 204) **R. Princesa do Jacui**, Candelaria, RS – 205) **Prefeitura Municipal de Passo Fundo**, Passo Fundo, RS – 206) **R. Nazareth**, Belem, PA – 207), **R. Pampa**, Porto Alegre, RS – 208) **R. Cachoeira de Itapemirim**, Cachoeira de Itapemirim, ES – 209) **E. Baré**, Cuiba, MT – 210) **Empreza Jornal do Comercio**, Garanhuns, PE – 211) **R. Sul Riograndense**, Erechin, RS – 212) **R. Dif. do Amazonas**, Manaus, AM – 213) **Soc. Ubaense**, Uba, MG – 214) **R. Dif. Guarapuava**, Guarapuava, PR – 215) **R. Cl. Hertz**, Franca, SP – 216) **Emis. Riograndenses**, Pelotas, RS – 217) **R. Presidente Wenceslau**, Pres. Prudente, SP – 218) **R. Capibaribe de Recife**, Recife, PE – 219) **R. Cl. Pontagrossense**, Ponta Grossa, PR – 220) **Emis. Unidas**, Av. Angelica 430, Sao Paulo, SP – 221) **R. Educacão Rural**, Campo Grande, MT – 222) **R. Cl. do Piaui**, Teresina, PI – 223) **R. Gazeta de Alagas**, Maceió, AL – 224) **R. Ibituruna**, Governador Valadares, MG – 225) **R. Cultura de Maringá**, Maringá, PR – 226) **R. Carijós**, Conselheiro Lafaiete, MG – 227) **R. Cl. Metropole**, Porto Alegre, RS – 228) **R. Cultura de Cuiaba**, Cuiaba, MT – 229) **R. Dirceu de Marilia**, Marilia, SP – 230) **S. R. Dif. Cultura de Pelotas**, Pelotas, RS – 231) **R. Herval do Oeste Ltda**, Joaçaba, SC – 232) **R. Cultura de Piaui**, Teresina, PI – 233) **Soc. R. Dif. A Voz da Amazonia**, Manaus, AM – 234) **R. Operaria de Araxa**, Araxa, MG – 235) **R. Diamantina**, Diamantina, MG – 236) **Soc. Educadora de Itajuba**, Itajuba, MG – 237) **R. Cl. de Blumenau**, Blumenau, SC – 238) **Empresa Jornal do Comercio**, Triumfo, PE – 239) **R. Dif. do Pará**, Belem, PA – 240) **R. Arapuan**, João Pessoa, PA – 241) **R. Gurupi**, São Luis, MA – 242) **R. Soc. Oeste Catarinense**, Chapecó, SC – 243) **R. Guaranta**, Santa Maria, RS – 244) **R. Dif. Sul da Bahia**, Itabuna, BA – 245) **R. Estadual**, Canoinhas, SC – 246) **R. Uirapuru de Fortalesa**, Fortalesa CE – 247) **R. Alvorada**, Marau, RS – 248) **R. Continental do Recife**, S. A, Recife, PE – 249) **R. Dif. de Iguape**, Osasco, SP – 250) **R. Tingui**, Piraquara, PR – 251) **R. Sul Fluminense**, Barra Mansa, RS – 252) **R. Dif. de Pesqueira**, Pesqueira, PE – 253) **R. Journal de Minas**, Belo Horizonte, MG – 254) **R. Porto Alegre**, Porto Alegre, RS – 255) **R. Educadora de Cariri**, Cariri, CE – 256) **R. Emis. Veranense**, Veranópolis, RS – 257) **R. Dif. de Rio Preto**, São José do Rio Preto, SP – 258) **R. America**, Rua Consolação 166, São Paulo, SP – 259) **R. Tamoio**, Fortaleza, CE – 260) **Soc. R. Imbiara de Araxá**, Araxá, MG – 261) **R. Triunfo**, Porto Alegre, RS – 262) **R. Vera Cruz**, Rua Buenos Aires 168, Rio, GB – 263) **R. Cl. de Teresina**, Teresina, PI – 264) **R. Cl. de Tupá**, Tupá, SP – 265) **R. Bare**, Manaus, AM – 266) **R. Cl. de Santos**, Santos, SP – 267) **R. Caturite**, Campina Grande, PB – 268) **Campos Dif**, Campos, RJ – 269) **R. Coroados**, Curitibanos, SC – 270) **R. Iracema de Fortaleza**, Praça M. Linhares, Sobral, CE. 271) **R. Cl. do Rio Claro**, Rio Claro, SP – 272) **R. Emis. Convenção do Itu**, Itu, Sp – 273) **R. Soc. Muriaé**, Muriaé, MG – 274) **R. Espinhares de Patos**, Patos, PB – 275) **R. Cl. Epitacio**, Preto. Epitacio, SP – 276) **R. Progresso**, Novo Hamburgo, RS – 277) **R. Araripe**, Crato, CE – 278) **Soc. Emiss. Continental**, Campos, RJ – 279) **R. Dif. A Voz de Bage**, Bage, RS – 280) **R. Reporter**, Ijus, RS – 281) **R. Dif. de Floriano**, Floriano, PI – 282) **Soc. R. Novo Horizonte**, Novo Horizonte, SP – 283) **R. Nordeste**, Nova Cruz, RN – 284) **R. Cultura do Nordeste**, Caruaru, PE – 285) **R. Cultura de Santo Amaro**, Santo Amaro, BA. Brown Boveri, Switzerland, delivered 100kW sw-tr. (**R.** Tupi). Telefunken A.G, Germany, delivered 50kW sw-tr. (**R.** Nacional, Rio de Janeiro).

CHILE

L.T: GMT–4 h – **Pr.L:** Spanish.

ASOCIACION DE RADIODIFUSORAS DE CHILE (ARCHI)
ADDR: Cas. 10476, Santiago de Chile. **Te:** 34509. **Cable:** Archi – **L.P:** Pres: R. Vergara Santa Cruz. Vice Pres: G. Cortés Cruz. Mgr. J. Menadier Carrasco.
STATIONS: S.W: Call letters CE are used for all zones – M.W: Call letters CA, CB, CC and CD indicate: A=No. Zone, B=Central Zone, C=So. Zone and D=Antartic Zone. The figures indicate the freq in kc minus one cipher, f.inst. CB82=Central Zone 820kc.
St's not associated with ARCHI: 9, 11, 14, 31, 33, 38, 51, 64, 70, 72, 83, 87, 90, 91, 96, 108, 112, 113, 114.
Short Wave:

Call	kc	m	kW	Name	h of tr.
1) CE595	5955	50.39	1	R. Nuevo Mundo, Santiago:	11.00–04.30
2) CE597	5975	50.21	10	Emis. Presidente Balmaceda:	10.00–05.00
3) CE601	6010	49.92	0.25	R. Norte, Antofagasta	10.50–04.30
4) CE603	6030	49.75	1	R. Mineria, Talca	
5) CE605	6050	49.59	0.5	R. Libertad, Antofagasta	11.00–04.00
6) CE607	6070	49.42	5	Soc. Nac. de Mineria	11.00–05.30
7) CE610	6100	49.18	1	R. Calama	11.00–04.00
8) CE611	6110	49.10	5	Soc. Nac. de Agricultura	11.00–05.00
9) CE613	6135	48.90	10	R. Universidad de Concepción:	12.00–04.00
10) CE615	6150	48.78	5	La Voz de Chile, Santiago	
11) CE617	6170	48.62		R. Universidad Técnica del Estado, Santiago:	17.00–04.00
12) CE619	6190	48.47	10	Corp. Chilena Broadc.	11.00–04.00
12) CE950	9500	31.58	1	Corp. Chilena Broadc.	11.00–04.00
13) CE952	9520	31.51	1	R. El Morro, Arica	
14) CE955	9550	31.41	1	R. Valentin Letelier, Valparaiso Mon–Fri 16.30–18.30, Sat–Sun 20.00–03.00	23.00–03.00;
15) CE956	9560	31.38	1	Diego Portales, Santiago	11.00–05.00
2) CE960	9600	31.25	1	R. Pres. Balmacéda, Santiago	10.00–05.00
16) CE965	9650	31.09	1	R. Yungay, Santiago	11.30–06.30
10) CE970	9700	30.93	1	La Voz de Chile, Santiago	10.50–04.30
1) CE1174	11740	25.55	5	R. Nuevo Mundo, Santiago	11.00–04.30
8) CE1181	11810	25.40	5	Soc. Nac. de Agricult.	11.00–05.00
17) CE1185	11850	25.32	1	R. Cruz del Sur, Santiago	11.00–04.00
10) CE1190	11900	25.21	5	La Voz de Chile, Valparaiso	10.50–04.30
6) CE1196	11960	25.08	5	Soc. Nac. de Mineria	11.00–05.30
6) CE1511	°15115	19.85	5	Soc. Nac. de Mineria	
12) CE1515	15148	19.80	1	Corp. Chilena Broadc.	11.00–04.00
8) CE1530	15300	19.61	5	Soc. Nac. de Agricultura	

Medium Waves: °=Short Wave.

Call	kc	kW	Call	kc	kW	Call	kc	kW
18) CB54	540	1	22) CA62	620	1	27) CA64	640	1
19) CD54	540	1	23) CC62	620	10	28) CD64	640	10
8) CB57	°570	50	24) CB63	630	1	29) CB66	660	50
20) CA59	590	1	25) CA63	630	0.1	9) CC68	°680	10
21) CC59	590	1	26) CB63	630	1	30) CB69	690	10

Call	kc	kW
10) CB73	°730	10
10) CB76	°760	75
5) CA78	°780	1
31) CB78	780	1
32) CB78	780	1
33) CA82	820	0.25
34) CB82	820	1
35) CC82	820	1
36) CD82	820	1
37) CB84	840	10
38) CB89	890	5
39) CC89	890	1
40) CD89	890	1
41) CC90	900	1
1) CB93	°930	10
42) CB96	960	10
7) CA97	°970	0.25
43) CB97	970	1
44) CC97	970	1
45) CD97	970	1
46) CA101	1010	0.25
47) CB101	1010	10
48) CD101	1010	1
14) CB103	°1030	1
49) CC103	1030	0.1
50) CD103	1030	1
51) CD103	1030	
52) CD103	1030	0.1
6) CB106	°1060	100
53) CD108	1080	1
54) CA109	1090	1
4) CC109	1090	1
55) CD109	1090	1
56) CB111	1110	1
57) CD84	840	1.5

Call	kc	kW
12) CB114	°1140	50
15) CB118	°1180	50
58) CA120	1200	1
8) CD120	1200	1
11) CB121	°1210	1
59) CA124	1240	1
60) CB124	1240	1
61) CC124	1240	1
62) CA125	1250	1
63) CB125	1250	1
64) CD125	1250	1
65) CC126	1260	1
3) CA127	°1270	1
6) CB127	°1270	10
2) CB130	°1300	10
66) CA132	1320	0.25
67) CC132	1320	10
68) CB133	1330	2
69) CD133	1330	1
70) CA134	1340	0.25
71) CB134	1340	1
72) CB134	1340	1
73) CC134	1340	1
74) CB135	1350	1
75) CD135	1350	1
76) CD135B	1350	1
77) CA136	1360	1
17) CB138	°1380	50
78) CC140	1400	1
79) CB141	1410	1
80) CD141	1410	0.1
81) CA142	1420	0.1
82) CB142	1420	1
83) CC142	1420	0.25

Call	kc	kW
84) CC143	1430	1
85) CD143	1430	1
86) CB144	1440	
87) CB145	1450	0.25
88) CC145	1450	0.1
89) CD145	1450	0.25
90) CD145B	1450	2.5
91) CA146	1460	
16) CB146	1460	1
92) CB147	1470	1
93) CC148	1480	0.25
94) CD148	1480	1
95) CA150	1500	10
96) CB150	1500	0.5
97) CC151	1510	1
98) CC152	1520	1
99) CD152	1520	0.1
100) CB153	1530	1
101) CC153	1530	1
13) CA154	°1540	10
102) CC154	1540	0.25
103) CB155	1550	0.1
104) CC155	1550	0.25
105) CD155	1550	0.25
106) CB156	1560	0.1
107) CD156	1560	0.1
108) CB157	1570	0.25
109) CC157	1570	0.25
110) CB159	1590	0.25
111) CC159	1590	0.25
112) CB160	1600	
113) CB160A	1600	0.25
114) CC160	1600	
115) CA190	1900	0.25

Short Waves:

1) Cas. 9255, Santiago. **Te:** 382392. **Cable:** R. Nuevo Mundo – **L.P:** Dir. Gen: J. Raggio – **D.Prgr:** N: 11.30, 12.30, 13.00, 14.00, 15.00 16.00, 17.15, 18.00, 19.00, 20.00, 21.00, 22.00, 23.00, 01.00, 02.00, 03.00 – **Ann:** "Estas son las Emisoras Nuevo Mundo de Santiago de Chile, que transmiten por CE93 onda larga, CE1174 onda corta en la Banda de 25 metros, CE595 onda corta en 49 metros y su equipo de FM en 93.5Mc" – V. by QSL-card and letter. Re. in Sp, E.

2) Cas. 13650, Santiago. **Te:** 87829. **Cable:** Prebal – **L.P:** Dir. Gen: E. Mac. Donald. St. Mgr: R. Deformes R – **D.Prgr:** N: 10.00, 11.05, 17.15, 01.30, 04.40+short N. every h on the h – **Int-Sig:** Gong with notes from "Los Copihues Rojos"

V. by QSL-card. Recordings accepted.

3) Cas. 556, Antofagasta. **Te:** 21822 – **L.P:** J. Cvitanic – **D.Prgr:** N: 11.30, 12.15, 17.00, 17.15, 00.15, 02.00+short N. every h.

4) Cas. 21-D, Talca. **Te:** 33076 – **L.P:** Dir: E. Villarroel.

5) Cas. 457, Antofagasta. **L.P:** A. Cajiao – **D.Prgr:** N: 12.00, 17.30, 01.00, 02.30.

6) CB106: Cas. 2626, Santiago. **Te:** 380631. **Cable:** Radiomineria. CB127: Cas. 337, Vina del Mar – **L.P:** CB106+Dir. Gen: L. Hernan V, A. Santa Cruz. Dir. Prgr: R. Rojas R. Dir. Tec: R. Fuentes A. CB127: Mgr: L. Muños – **D.Prgr:** N: 10.00, 11.00, 12.00, 16.45, 17.30, 01.00, 01.45, 02.30 – **Ann:** "Santiago de Chile, R. Soc. Nac. de Mineria" – **Int-Sig:** Gong – V. by QSL-card. Re. in E or Sp.

7) Cas. 1, Calama. **Te:** 10 – **L.P:** Dir: P. Vergara Keller. Dir. Tec: S. Wierckinsky – **D.Prgr:** N: 11.02, 12.00, 16.45, 17.30, 00.15, 02.30 – **Ann:** "Transmite CA97, CE610 en 49 metros, R. Calama de Calama, República de Chile" – V. by letter. Recordings accepted.

8) CB57: Cas. 40-D, Santiago. **Te:** 64660. CD120: Cas. 327, Los Angeles. **Te:** 517 – **L.P:** CB57: Dir: E. Echeverria M. CB120: Dir: J. Cerda – **D.Prgr:** N: 11.30, 13.00, 15.00, 16.00, 17.00, 19.00, 21.00, 23.00, 00.00, 01.00, 03.00, 04.00 – V. by QSL-card.

9) Cas. 2337, Concepción. **Te:** 23207 – **L.P:** Mgr: F. Dussuel. Dir. Tec: O. Sa. Martin – **D.Prgr:** N: 12.15, 17.15, 01.30. **Wrp:** 01.30 – **L.L:** French 14.30, 23.30 – **Ann:** "Transmite R. Universidad de Concepción CC68 en Onda Larga, CE613 en Onda Corta en la Banda 49 metros y con su equipo de FM en 95.1Mc, desde la Ciudad Universitaria, Concepción, Chile" – V by QSL-card and letter. Re. in E and Sp – **Pub:** Prgr.schedule on request.

10) CB76/CE615/CE970: Cas. 13130, Santiago. **Te:** 62391. CB73/CE1190: Cas. 37V, Valparaiso. **Te:** 3342. **Cable:** Vitalradio – **L P:** CB76: Dir. Gen: C. Vial C. CB73: Gen. Mgr: R. Reyes B. Dep. Gen. Mgr: V. Tischenko G. Dir. Tec: R. Renard S. **D Prgr:** N: CB76/CE615/CE970: 11.30, 12.15, 13.00, 16.00, 16.45, 17.15, 18.00, 19.00, 19.20, 20.00, 21.00, 22.00, 23.00, 00.15, 02.00; CB73/CE1190: 11.00, 11.30, 12.00, 13.00, 14.00, 15.00, 16.00, 16.45, 17.15, 18.00, 19.00, 20.00, 21.00, 22.00, 22.30, 00.00, 02.00, 03.00, 04.00 – **Ann:** "Emisoras La Voz de Chile, La Cooperativa". All st's simultaneously: "Transmite La Cadena Radial, La Voz de Chile, por sus estaciones R. La Cooperativa" – **Int-Sig:** Gong with central theme of "Pomp and Circumstance" – V. by QSL-card and letter. Recordings accepted.

11) Av. Ecuador 3469, Santiago. **Te:** 92981 – **L.P:** Dir: G. Vidal. Dir. Tec: J. Arenas K. **D.Prgr:** N: 17.30, 02.00.

12) Cas. 244V, Santiago. **Te:** 63674 – **L.P:** Dir: S. Fernandez – **D.Prgr:** N: Every h on the h – **Ann:** "Transmite CB114, R. Corporación, Santiago de Chile, R. Corporación en el mejor lugar, su hogar".

13) Cas. 463, Arica. **Te:** 1402 – **L.P:** Dir: C. Nieto G – **D.Prgr:** 11.00–06.00 – V. by letter.

14) Box 211V, Valparaiso – **L.P:** Dir: O. Henriques E. – **Ann:** "Esta es R. Valentin Letelier, de la Escuela de Derecho de Valparaiso, dela Universidad de Chile, transmitiendo en Onda Larga CB103, en 1030 kc, en Onda Corta CE955, en 9550kc, y en FM CE104.3 en 104.3Mc por segundo" – V. by QSL-card or letter. Re. in Sp or E.

15) CB118/CE956: Cas. 13962, Santiago. **Te:** 21822. CB59: Cas. 98V, Valparaiso. CC108: Cas. 21-D, Talca – **L.P:** Dir. Gen: R. Tarud S. Dir. Tec: A. Hasbun A – **D.Prgr:** N: 11.30, 12.00, 13.00, 14.00, 15.00, 16.00, 19.00, 20.00, 21.00, 23.00, 04.57.

16) Cas. 3041, Santiago. **Te:** 31583 – **L.P:** Mgr: H. Beweis – **Ann:** "CB146 y CE965 Estacione de R. Yungay de la Corporación de Radiodifusion, Santiago de Chile" – **Int-Sig:** First movement of the song "Donde el Azul de la Noche encuentra el Ove del Dia" – V. by letter.

17) Plaza Bulnes 47, Santiago. **Te:** 62055 – **L.P:** Dir. Gen: M. Parada C. Mgr: C. Poblete – **D.Prgr:** N: 12.10, 17.45, 01.45, 04.45 – V. All re. to be sent to Sr. V. Hugo Olguin D, Departamento de Relaciones Internacionales, and will be answered by QSL-card or letter.

Medium Waves

18) **R. Ignacio Serrano**, Cas. 110, Melipilla – **L.P:** Dir: J. Massoud.

19) **R. Sur**, Cas. 60-D, Valdivia. **Te:** 641 – **L.P:** Dir: E. Charpentier – **D.Prgr:** 11.00–04.00.

20) **R. Mineria**, Hotel Turismo, Antofagasta. **L.P:** Dir: H. Laredo.

21) **R. Condor**, Cas. 486, Concepción. **Te:** 25801. **L.P:** Dir: A. Hérnandez – **D.Prgr:** 11.00–04.00.

22) **R. Norte Verde**, Cas. 252, Ovalle. **L.P:** Dir: F. Morales.

23) **Nueva R. El Sur**, Cas. 482, Concepcion. **L.P:** Dir: J. Loyola.

24) **R. La Reina**, Cas. 922, Santiago. **L.P:** Dir: M. Lavin.

25) **R. Chañaral**, Comercio 53, Chañaral. **L.P:** Dir: Hoguer Garrao.

26) **R. Pres. Prieto**, Cas. 37V, Valparaiso. **L.P:** Dir: R. Reyes.

27) **R. Esmeralda**, Cas. 209, Iquique. **Te:** 572 – **L.P:** Dir: J. Fuster H.

28) **R. Cautin**, Cas. 41-D, Temuco. **Te:** 31695 – **L.P:** Dir: C. Spahie.

29) **Nueva R. Chilena**, Cas. 10277, Santiago. **L.P:** Dir: E. Menchaca.

30) **R. Santiago**, Cas. 10195, Santiago. **Te:** 35618 – **L.P:** Dir: R. Vergera. Dir. Tec: P. del Campo – **D.Prgr:** N: 11.30, 17.00, 00.45, 01.30. **English:** 02.30–03.00. **Ann:** "CB69 y CE97.1 R. Santiago, en Santiago de Chile".

31) **R. Caupolican**, Cas. 506, Valparaiso – 32) **R. La Frontera**, Cas. 910, Temuco. **Te:** 32140. **L.P:** Dir: E. Aqueveque – 33) **R. Pampa**, P. de Valdivia – 34) **R. del Pacifico**, Cas. 3591, Santiago. **Te:** 66657. **L.P:** Dir: R. Vivado & J. Quinteros. **D.Prgr:** 24 h.

35) **R. Almirante Latorre**, Cas. 358, Talcahuano. **L.P:** Dir: A. Deij.

36) **R. Concordia**, Cas. 119, La Union. **Te:** 20. **L.P:** Dir: C. Figueroa.

37) **R. Portales**, Cas. 89-V, Valparaiso. **Te:** 56431. **L.P:** Dir: E. Espinosa.

38) **R. Bulnes**, Cas. 1555, Santiago. **L.P:** Dir: C. Briceño.

39) **R. Interamericana**, Cas. 97, Concepción. **Te:** 21446. **L.P:** Dir: M. Fonseca.

40) **R. Polar**, Cas. 13-D, Punta Arenas. **Te:** 21902. **L.P:** Dir: P. Torreso. **D.Prgr:** 11.30–04.00. **V.** by letter.

41) **R. Ñuble**, Cas. 267, Chillan. **Te:** 21742. **L.P:** Dir: H. Vaccaro.

42) **R. José Miguel Carrera**, Cas. 13439, Santiago. **L.P:** Dir: O. Pizarro – 43) **R. Soc. Nac. de Agricultura**, Cas. 90, Valparaiso. **Te:** 59129. **L.P:** Dir: A. Coronel.

44) **R Lautaro**, Cas. 214, Talca. **Te:** 31435. **L P:** Dir: E. Tarud.

45) **R. Patagonia Chilena**, Cas. 53, Coyhaique. **L.P:** Dir: G. López.

46) **R. Coya**, Cas. 808, Antofagasta. **Te:** 383-16. **L.P:** Dir: R. Fiedler.

47) **R. Magallanes**, Cas. 13940, Santiago. **Te:** 30313. **L.P:** Dir: F. Linares.

48) **R. Llanquilhue**, Cas. 356, Puerto Montt. **Te:** 2234. **L.P:** Dir: R. Salinas. **D.Prgr:** 11.00–04.00 – 49) **R. El Roble**, Cas. 37, Parral. **Te:** 25 **L.P:** Dir: G. Belmar.

50) **R. Chiloé**, Cas. 106, Castro. **L.P:** Dir: A. Velasquez.

51) **R. Payne**, Cas. 97, Puerto Natales. **L.P:** Dir: J. Navarro.

52) **R. Malleco**, Cas. 204, Victoria. **L.P:** Dir: G. Servanti.

53) **R. Camilo Henriquez**, Cas. 28-A, Valdivia. **L.P:** Mgr: H. Werkmeister.

54) **R. La Portada**, Cas. 410, Antofagasta. **Te:** 23253 – **L.P:** Sra. Raymunde Prieto – 55) **R. Austral**, Cas. 40-D, Punta Arenas. **Te:** 23135. **L.P:** Dir: M. Ojeda.

56) **R. Recreo**, Cas. 596, Viña del Mar. **L.P:** Mgr: E. Goday. Dir. Tec: J. C. Tribuzio. **D.Prgr:** 12.00–04.00.

57) **R. Sago**, Cas. 35-O, Osorno. **L.P:** Dir: P. Burgos. **D.Prgr:** 11.30–04.00.
58) **R. Almirante Blanco Encalada**, Cas. 2001, Tocopilla.
59) **R. del Salitre**, Cas. 7-D, Iquique.
60) **R. Viña del Mar**, Cas. 334, Viña del Mar. **L.P:** Dir: J. Venegas.
61) **R. Talca**, Cas. 450, Talca. **Te:** 31818. **L.P:** Dir: L. Gajardo.
62) **R. Mineria la Serena**, Cas. 118, La Serena. **L.P:** Dir: A Pino.
63) **R Andrés Bello**, Mac Iver 142, Santiago. **L P:** Mgr: J. Morris.
64) **Universitaria Tecnico del Estado**, Valdivia.
65) **R. Condell**, Cas. 492, Curico. **Te:** 23. **L.P:** Dir: A. Guerra.
66) **R. Estrella del Norte**, Cas. 13, Vallenar. **L.P:** Dir: L. Morales.
67) **R. Simon Bolivar**, Cas. 318, Concepción. **L.P:** Dir: A. Jaén.
68) **R. Prat**, Cas. 10210, Santiago. **Te:** 30107. **L.P:** Dir: P. Valenzuela – **D.Prgr:** 11.00–05.40. **Ann:** "Esta es CB133 todo el dia informando".
69) **R. Vicente Perez Rosales**, San Felipe 80, Puerto Montt.
70) **R. Toco**, Cas. 808, Tocopillo – 71) **R. Porteña**, Cas. 887, Valparaiso. **L.P:** Dir: E. Roger.
72) **R. Cervantes**, Cas. 4650, Santiago. **L.P:** Dir: G. Holtehuer.
73) **R. La Discusión**, Cas. 14-D, Chillan. **L.P:** Dir: L. Vergera.
74) **R. Panamericana**, Gran Av. 5848, Santiago. **L.P:** Dir: F. Claro.
75) **La Voz del Sur**, Cas. 53, Punta Arenas. **Te:** 22253. **L.P:** Dir: J. Babarovic. **D.Prgr:** 11.30–04.00.
76) **R. Pudeto**, Edif. Yuri, Ancud. **L.P:** Dir: Sra. J. Castro.
77) **R. Riquelme**, Cas. 92, Coquimbo. **L.P:** Dir: J. Ramirez.
78) **R Araucania**, Cas. 462, Concepción. **L.P:** Dir: R. Arjona.
79) **R. Valparaiso**, Cas. 1096, Valparaiso. **L.P:** Dir: H. Torres.
80) **R. Loncoche**, Cas. 115, Loncoche. **Te:** 61. **L.P:** Dir: M. Téllez.
81) **R. Alonso de Ercilla**, Constitución 26, Illapel. **L.P:** H. Pinochet.
82) **R. Nacional**, Cas. 9987, Santiago. **Te:** 31782. **L.P:** Mgr: J. Salgado.
83) **R. Maule**, Cas. 196, Cauquenas – 84) **R. El Libertador**, Cas. 102, Rancagua. **Te:** 22032. **L.P:** Dir: A. Vesperina – 85) **R. Eleutario Ramirez**, Cas. 479, Osorno. **L.P:** Dir: R. Ramirez – 86) **R. El Espectador**, Santiago.
87) **Univ. Tecnica Santa Maria**, Cas. 110-V, Valparaiso. **L.P:** Dir: C. Ceruti. Dir. Tec: G. Feik. **D.Prgr:** 01.00–02.30.
88) **R. Central**, Cas. 202, San Carlos. **Te:** 163 – **L.P:** Dir: Victor Busto.
89) **R. Arauco**, Cas. 6, Angol. **L.P:** Dir: J. Abasolo – 90) **R. Turismo**, Puerto Varas – 91) **R. Antofagasta**, Cas. 439, Antofagasta. **L.P:** Dir: A. Garcia.
92) **R. Sargento Aldea**, Cas. 38, San Antonio. **L.P:** Dir: R. Filippi.
93) **R. Independencia**, Cas. 132, Molina. **L.P:** Dir: B. Gálvez. **D.Prgr:** 11.00–06.00. V. by QSL-card.
94) **R. Baquedaño**, Cas. 758, Valdivia. **Te:** 1510. **L.P:** Dir: C. Cockbaine – 95) **R. Patricio Lynch**, Vivar 489, Iquique. **L.P:** Dir: L. Roldán.
96) **R. Sudamerica**, Cas. 1346, Santiago – 97) **R. Rancagua**, Cas. 21, Rancague. **Te:** 462. **L.P:** Dir: J. Romero.
98) **R. Soberania**, Cas. 11-D, Linares. **Te:** 277. **L.P:** Dir: R. Grez G.
99) **R. Anibal Pinto**, Cas. 242, Lautaro. **L.P:** Mgr: C. Carrasco.
100) **R. Chacabuco**, Cas. 370, Quillota. **L.P:** Dir: S. Achondo.
101) **R. El Carbon**, Cas. 66, Lota. **Te:** 63. **L.P:** Dir: N. Mosciatti.
102) **R. Centenario**, Cas. 18, San Javier. **Te:** 29. **L.P:** Dir: M. Gaete.
103) **R. Provincial**, Cas. 75, Putaendo. **L.P:** Dir: H. Arancibia.
104) **R. Manuel Rodriguez**, Cas. 147, San Fernando.
105) **R. Regional**, Cas. 293, Traiguen. **Te:** 220. **L.P:** Dir: H. Cuadra.
106) **R. Limache**, Cas. 92, Limache. **Te:** 247. **L.P:** Dir: H. Arellano.
107) **R. Jerónimo de Alderete**, Villarrica. **L.P:** Dir: N. Páez.
108) **R. Trasandina**, Cas. 307, Los Andes. **L.P:** Dir: P. Valdenegro.
109) **R. El Cobre**, Cas. 125, Rancagua. **L.P:** Dir: J. Romero.
110) **R. Aconcagua**, Cas. 100, San Felipe. **L.P:** Dir: R. G. Gonzáles.
111) **R. Rengo**, Plaza de Rengo, Rengo. **L.P:** Dir: I. Gandarillas.
112) **R. Reloj**, Valparaiso – 113) **R. Chronos**, Plaza Bulnes 79, Santiago – 114) **R. Horario**, Concepción. **L.P:** Dir: E. Sánchez.
115) **R. Atacama**, Cas. 57, Copiapo. **Te:** 171. **L.P:** Dir: A. Sidgmann.

COLOMBIA

L.T: GMT – 5 h – **Pr.L:** Spanish

STATIONS: a) Gov st's – b) Cultural – c) Cultural or non-comm, private – d) m) & q Comm Networks – n) Comm st's

Short Waves: Call: HJ---. 11.00–05.00 exc. where indicated.

	Call	kc	m	kW	Name of tr.
1)	DT	2402.5	124.74	0.06	R. Nutibara, Medellin q)
2)	AB	3290	91.18	25	R. Nacional, Bogotá: 11.35–04.25 (Sun 13.50–04.10) a)
3)	IV	4755	63.09	2.5	Reina Colombia, Chiquinquira c)
4)	KW	4775	62.84	1	Voz Maria, Bogotá: 12.00–03.00 c)
5)	LW	4785	62.70	1	Ecos Combeima, Ibaqué: 11.00–04.00 n)
6)	FU	4795	62.57	1	Voz Comercio, Armenia e)
7)	AU	4805	62.43	0.5	Universidad Antioquia, Medellin c)
8)	DD	4815	62.31	1	R. Valledupar d)
9)	HC	4825	62.18	1	R. Nariño, Pasto: 10.45–05.00 e)
10)	AM	4835	62.05	1	R. Buenaventura n)
11)	GF	4845	61.92	1	R. Bucaramanga: 11.00–04.00 q)
12)	FV	4855	61.79	1	R. Néiva: 23.00–02.00 n)
13)	BG	4875	61.54	1	Voz Norte, Cucuta n)
14)	IW	4885	61.45	1	Voz del Centro, Espinal i)
15)	CH	4895	61.29	5	Voz Victor, Bogotá n)
16)	AG	4905	61.16	1	Emis. Atlantico, Barranquilla: 11.30–04.00 n)
17)	DE	4935	60.80	1	R. Villavicencio d)
18)	CW	4945	60.67	1	Emis. Suramerica, Bogotá: 11.00–05.00 g)
2)	CQ	4955	60.54	50	R. Nacional, Bogotá: 11.35–04.25 (Sun 13.50–04.10) a)
19)	AF	4965	60.42	2.5	R. Santa Fé, Bogotá: 24 h n)
20)	JG	4975	60.30	1	R. Internacional, Cucuta f)
21)	GV	4985	60.18	10	Transmis. Independencia, Tunja n)
22)	FW	5020	59.76	1	Transmis. Caldas, Manizales: 24 h e)
23)	IC	5035	59.58	1	Voz Caquetá, Florencia n)
24)	DW	5050	59.41	1	Voz Medellin e)
25)	GC	5075	59.11	25	R. Sutatenza: 10.20–03.10 b)
25)	GG	5095	58.88	50	R. Sutatenza: 10.20–14.00, 19.00–03.10 b)
26)	CF	5960	50.34	1	Voz Bogotá: 11.00–04.00 i)
27)	VN	5970	50.25	5	R. Horizonte, Bogotá: 12.00–03.00 n)
28)	LY	5980	50.17	10	Voz Rio Grande, Medellin: 11.00–07.00 f)
29)	GR	5995	50.04	1	Voz Pueblo, Peréira: 12.00–04.00 f)
30)	FK	6010	49.92	10	Voz Amiga, Peréira: 12.00–04.00 i)
31)	CB	6040	49.67	10	Voz Tolima, Ibagué f)
32)	EX	6055	49.55	5	R. Pacifico, Cali e)
25)	HV	6075	49.38	10	R. Sutatenza: 10.20–03.10 b)
33)	DX	6085	49.30	1	Ecos Pasto n)
34)	DP	6095	49.22	1	R. Colosal, Neiva i)
35)	NV	6105	49.14	5	R. Visión, Medellin: 10.30–05.30 m)
36)	IQ	6115	49.06	1	Voz Llano, Villavicencio: 13.00–05.00 f)
37)	KE	6125	48.98	1	R. Continental, Bogotá: 10.00–05.30 f)
38)	NE	6140	48.86	1	R. El Sol, Cali: 11.00–05.00 f)
39)	EQ	6145	48.82	1	Voz Cauca, Popayán f)
40)	KJ	6160	48.70	10	Emis. Nueva Granada, Bogotá: 10.00–06.00 e)
2)	WT	6180	48.54	50	R. Nacional, Bogotá: 11.35–04.25 (Sun 13.50–04.10) a)
41)	EZ	6195	48.43	1	Voz Cali: 11.00–05.00 f)

Medium Waves: Call: HJ---. °) also on SW.

	Call	kc	kW			Call	kc	kW			Call	kc	kW	
27)	KA	°540	10	n	15)	CI	°970	10	n	94)	CK	1160	10	n
21)	GS	°560	10	n	38)	ES	°980	10	f	95)	ZV	1160	5	c
2)	ND	°570	100	a	24)	DB	°990	10	e	34)	DP	°1170	10	i
25)	CR	°590	10	b	66)	CC	1010	10	m	1)	DT	°1170	5	q
42)	HJ	600	25	n	67)	BN	1010	10	f	96)	GN	1170	5	d
40)	KL	°610	25	e	68)	BL	1020	2.5	q	97)	JI	1170	1	f
43)	EL	620	10	g	69)	DQ	1020	5	f	98)	FX	1180	1	d
44)	FD	630	20	f	32)	ER	°1020	10	e	99)	GK	1180	10	e
45)	BJ	640	10	e	70)	DJ	1030	5	f	100)	DF	1190	1	n
46)	KH	650	10	i	29)	FQ	°1030	20	f	101)	CT	1190	5	n
47)	JM	660	10	f	71)	AI	1040	5	m	102)	CV	1190	10	f
48)	NX	670	10	g	72)	CJ	1040	10	g	103)	EO	1190	1	n
49)	AQ	680	10	e	8)	BB	°1050	2.5	d	34)	BX	°1200	2	f
50)	CZ	690	10	m	73)	DR	1050	1	n	104)	CD	1200	1	f
5)	FT	°710	10	n	74)	NG	1050	2.5	f	105)	IJ	1200	1	n
51)	AN	720	10	i	75)	GU	1060	1	f	106)	NF	1200	1	i
52)	CU	730	10	g	76)	AZ	1060	10	i	20)	BE	°1210	1	f
33)	HB	°740	10	n	22)	FJ	°1060	1	e	30)	FF	°1210	10	i
53)	DK	750	50	d	16)	AH	°1070	1	n	107)	AV	1220	2	e
54)	AJ	760	10	e	19)	CG	°1070	10	n	108)	FV	1220	10	d
55)	JX	770	30	i	77)	DZ	1080	1	d	109)	KR	1220	10	h
56)	ZG	780	30	n	78)	JF	1080	10	f	110)	NM	1220	2.5	c
57)	DC	790	10	m	79)	BC	1090	10	d	12)	FP	°1230	1	n
58)	BW	800	10	f	80)	FM	1090	10	f	111)	IL	1230	5	n
25)	CY	°810	10	b	81)	IH	1090	1	n	112)	LK	1230	1	n
59)	ED	820	50	d	82)	AT	1100	1	d	6)	FG	°1240	5	e
35)	DM	°830	10	m	83)	CN	1100	1	d	10)	JA	°1240	1	n
60)	BI	840	10	q	84)	DI	1110	9	c	113)	AO	1250	1	i
61)	KC	850	50	d	85)	EW	1110	1	d	114)	HS	1250	1	m
62)	EP	860	10	f	86)	JC	1120	1	f	115)	HZ	1250	1	c
31)	LA	°870	10	f	87)	KQ	1120	10	h	116)	KW	1250	10	n
11)	GE	°880	10	q	88)	AC	1130	10	f	117)	DA	1260	1	e
26)	CE	°890	10	i	18)	CO	°1130	5	g	118)	ET	1260	1	m
41)	EY	°900	10	i	89)	DL	1140	5	i	119)	HU	1260	1	f
28)	DO	°910	25	f	90)	EV	1140	1	n	120)	NC	1260	1	g
63)	AF	920	10	i	91)	TR	1140	2.5	f	121)	NO	1260	1	h
37)	CS	°930	10	f	92)	FI	1150	1	d	122)	EB	1270	1	n
64)	GB	940	10	i	25)	GJ	°1150	10	b	123)	KZ	1270	1	m
65)	FN	950	10	d	93)	NH	1160	5	f	124)	TX	1270	1	m

Call	kc	kW		Call	kc	kW		Call	kc	kW	
125) AR	1280	5	e	158) BD	1370	1	i	189) NT	1470	1	f
126) KN	1280	1	g	39) EA	°1370	1	f	2) EH	1480	1	b
127) LR	1280	1	d	159) KX	1370	1	n	190) DH	1480	1	n
128) NQ	1280	1	n	160) EJ	1380	1	e	191) FC	1480	1	q
129) CM	1290	1	f	161) KD	1380	1	f	192) TZ	1480	1	n
130) EC	1290	1	n	162) LG	1380	1	d	193) AW	1490	1	n
17) IA	°1290	1	d	163) NU	1380	1	n	194) BS	1490	1	n
131) KY	1290	1	n	164) FO	1390	1	n	195) NS	1490	1	f
132) TH	1290	1	n	165) GH	1390	1	d	196) CL	1500	1	e
133) DG	1300	1	n	166) TJ	1390	1	n	197) GA	1500	1	h
134) IR	1300	1	e	167) AS	1400	1	n	198) LJ	1500	1	n
135) LD	1300	1	f	168) BK	1400	1	e	199) TW	1500	1	n
136) NB	1300	1	d	169) JJ	1400	1	f	200) ZH	1500	1	n
137) AK	1310	2.5	n	170) KM	1400	0.25	c	201) HX	1510	1	i
138) JZ	1310	1	d	171) BH	1410	2	d	202) ZA	1510	1	m
139) LB	1310	1	n	7) DU	°1410	0.5	c	203) GX	1520	1	n
140) ZU	1310	1	n	172) EI	1410	1	m	204) LI	1520	1	q
141) FR	1320	1	e	173) FS	1410	1	d	205) LQ	1520	1	n
142) HT	1320	1	n	174) HM	1420	1	i	206) LS	1520	1	d
143) NK	1320	1	n	175) NY	1420	1	f	207) DN	1530	0.25	c
144) TA	1320	1	n	176) AP	1430	1	d	3) GD	°1530	0.35	c
145) VT	1320	1	n	177) BP	1430	1	f	208) JB	1530	1	e
146) FE	1330	1	e	178) EG	1430	1	n	209) LE	1530	1	f
147) HY	1330	1	n	4) KU	°1430	0.25	c	210) ZF	1540	0.25	c
148) AD	1340	1	i	179) BZ	1440	1	q	211) BV	1550	1	n
13) BF	°1340	1	n	180) FL	1440	1	e	212) GY	1550	1	n
149) FB	1340	1	n	181) EK	1440	1	m	213) ZI	1550	1	h
9) HA	°1340	1	e	182) GM	1440	1	e	214) CP	1560	1	n
150) DS	1350	1	g	23) IB	°1440	1	n	215) EE	1560	1	f
151) EN	1350	1	n	183) NZ	1440	1	n	25) GP	°1560	1	b
152) FY	1350	1	f	184) NL	1450	1	n	216) ZX	1560	0.25	c
153) HW	1350	1	f	185) AL	1460	1	f	217) ZT	1570	1	i
154) FH	1360	1	f	186) BA	1460	1	c	218) AY	1580	1	n
155) GI	1360	1	f	187) JW	1460	1	n	219) KF	1580	1	n
156) NI	1360	1	d	14) FZ	°1470	1	i	220) LC	1580	1	f
157) BO	1370	1	q	188) IM	1470	1	n	221) JH	1600	1	n

Abbreviations: Cl=Calle; Cr=Carrera.

a) **INSTITUTO NACIONAL DE RADIO Y TV (R. Nacional – Gov)** **Addr:** Apt. Nac. 1824, Bogotá – Division Radio: Transv. 17 No. 2565. **Te:** 414069 – **L.P:** Dir. Gen: C. Simmonds P. Dir. Tec: J. E. Nassar. **D.Prgr:** 12.00 (Sun 14.00) – 05.00.

b) **ACCION CULTURAL POPULAR (R. Sutatenza, Educ.)** **Addr:** Aéreo 1770, Bogotá. **Te:** 420543. **Cable:** "Radiofonicas" – **L.P:** Dir. Gen: J. J. Salcédo G. Mgr: F. Sarmiénto O. Dir. Prgr: F. Gutiérrez R. Dir. Tec: P. Sanchéz C.

c) Cultural or non-comm. private st's.

d) **CARACOL-PRIMERA CADENA RADIAL COLOMBIANA (Comm)** **Addr:** Aéreo 9291, Bogotá. **Te:** 419410. **Cable:** Caracol – **L.P:** Pres: F. Londoño H. Comm.Mgr: J. Alvarez B. **D.Prgr:** 11.00–05.00.

e) **RADIO CADENA NACIONAL (RCN) (Comm)** **Addr:** Aéreo 1244, Medellin. **Te:** 428640 – **L.P:** Pres: F. Echevérri G.

f) **TODELAR – CIRCUITO TODELAR DE COLOMBIA (Comm)** **Addr:** Aéreo 4392, Cali. **Te:** 89386 – **L.P:** Pres: B. Tobon de la Roche. Secr. Gen: H. Ilián. Comm. Mgr: N. Salazár R.

g) **RADIO SISTEMA TRICOLOR DE COLOMBIA (RST) (Comm)** **Addr:** Aéreo 7766, Bogotá. **Te:** 321463 – **L.P:** Mgr: J. A. Vanégas R.

h) **CORAL – CORPORACION RADIAL COLOMBIANA (Comm)** **Addr:** Cl. 12 No. 517, Bogotá. **Te:** 422254 – **L.P:** Mgr: A. Monroy G

m) **CRANSONAR (Comm)** **Addr:** Aéreo 3163, Medellin. **Te:** 419027 – **L.P:** Dir. Gen: J. Tobon de la Roche

n) Comm. st.

i) **UNION RADIO** (Comm) **Addr:** Aéreo 13018, Bogotá. **Te:** 419282 – **L.P:** Mgr: J. Sanchez M.

q) **ORGANIZACION INDEPENDIENTE DE LA RADIOFONIA COLOMBIANA (OIR)** (Comm) – **Addr:** Aéreo 11279, Bogotá. **Te:** 481620. **L.P:** H. F. Alvarez J.

Short Waves: Abbrev: Cr=Carrera, Cl=Calle.

1) Palace 5275, Medellin. **Te:** 14675 – **L.P:** Mgr: J. Garcia Lobo – 2) see a)

3) Chiquinquira – **L.P:** R. P. Dominicos

4) Aéreo 16029, Bogotá. **Te:** 478763. **L.P:** Dir. Gen: J. V. Echeverris J. Dir. Tec: H. A. Herrera. Dir. Prgr: A. Suarez S. **D.Prgr:** English 17.30. **Ann:** "La Voz de Maria, R. Kennedy, una emisora popular para todos los gustos". V. by QSL-card or letter. Recordings accepted.

5) Cr. 3a No. 1229, Ibague. **L.P:** Dir. Gen: J. Eugenio C. Dir. Tec: C. Estevez L. V. by letter.

6) Cl. 19 No. 1944, Armenia. **L.P:** Mgr: L. Herréra C.

7) Cr. 43 No. 4796, Medellin

8) Cl. 9 No. 4114. **Te:** 3178. **L.P:** Mgr: H. Aristizábal.

9) Aéreo 390, Pasto. **Te:** 1854. **Cable:** Radionariño. **L.P:** Mgr: C. Acósta OL – 10) Cl. 5, Cr. 2, Buenaventura

11) Aéreo 572, Bucaramanga. **Te:** 5406. **L.P:** Dir. Gen: J. Sorzano B. Dir. Tec: G. Sorzano J. **D.Prgr:** N: 12.00, 17.00, 24.00. **English:** W 03.30–04.00. **Ann:** "Estas son las Emisoras de R. Bucaramanga, transmitiendo en sus freq's HJGF onda corta 4845kc, HJGE onda larga 1030kc, y HKSO FM 96.5Mc desde Bucaramanga capital del Departamento de Santander en la República de Colombia" E: "This is R. Bucaramanga transmitting over following freq's...from Bucaramanga, Colombia in So. America" – V. by QSL-card. Re. in Sp, E.

12) Cr. 5a No. 5–28, Neiva. **Te:** 3199. **Cable:** Radioneiva. **L.P:** Mgr: R. Azuero M. Dir. Tec: L. Carlos C. **D.Prgr:** 10.30–05.00. V. by letter. Recordings accepted. **F.Pl:** 10kW – 13) Cucuta.

14) Cr. 7 No. 858, El Espinal. **Te:** 240. **L.P:** Mgr: J. Páva Navarro.

15) Cr. 7 No. 1135, Bogotá. **Te:** 421105. **L.P:** Mgr: A. Gaitan. V. by QSL-card.

16) Aéreo 174, Barranquilla. **L.P:** Mgr: M. A. Blanco.

17) Cl. 20 No. 2162, Villavicencio. **Te:** 2386. **L.P:** Mgr: J. Arcila M.

18) Transv. 6 a No. 2710, Bogotá. **Te:** 349867 – **L.P:** St. Mgr: V. M. Londoño E. Dir. Tec: J. Rios. **D.Prgr:** N: 11.30, 17.30, 23.30. V. by QSL-card. Prgr. schedule free.

19) Aéreo 9339, Bogotá. **Te:** 41182. V. by letter.

20) Aéreo 13000, Cucuta. **Te:** 4390. **L.P:** Mgr: L. E. Mantilla S.

21) Tunja – 22) Aéreo 244, Manizales. **Te:** 26362. **L.P:** Mgr: I. Escobar U. Dir. Tec: E. Martinez. **D.Prgr:** N: 12.00, 17.00, 24.00. **Ann:** "Transmisora Manizales Colombia Filial de R. Cadena Nacional". V. by letter – 23) Florencia.

24) Aéreo 1244, Medellin. **Te:** 28642. **L.P:** Mgr: B. Echeverri.

25) see b). **D.Prgr's:** **On 5075/6075kc:** 10.20–03.10. N: 12.00, 23.20, 01.00, 03.00. **On 1560/5095kc:** 10.20–14.00, 1845–03.10 (Sun 12.50–02.00). **On 810kc** (Bogotá): W 10.45–04.00. Sun 12.45–03.00. **On 590kc** (Medellin): 10.30–05.00. **On 1150kc** (Belencito): 10.45–03.10. **Ann:** "R Sutatenza afiliada a la Confederación Latinoamericana para la Educación Fundamental Integral, transmite desde Sutatenza, en Boyacá República de Colombia". V. by QSL-card. Re. to Cr. 39A No. 1511, Bogotá. **Pub:** Prgr. bulletin (Monthly). **F.Pl:** 10kW st's in Barranquilla, Cali.

26) Aéreo 13018, Bogotá. **Te:** 419282. **L.P:** Mgr: J. Sanchez M. V. by letter – 27) Ave. Jimenez 540, Bogotá. **Te:** 439813.

28) Aéreo 1431, Medellin. **Te:** 437028. **L.P:** Dir. Gen: B. Tobón de la Roche. Mgr: J. Restrépo L. **Ann:** "Desde el R. Centro Todelar y sus Circuito Nacional de Emisoras transmite La Voz del Rio Grande HJDO 910kc onda larga, en Medellin, Colombia" – V. by letter. Recordings accepted. **F.Pl:** mw 25kW.

29) Cr. 7 No. 1775, Pereira. **Te:** 2396. **L.P:** Mgr: J. Mejia D. V. by letter.

30) Aéreo 89, Pereira. **Te:** 8872. **L.P:** Mgr: J. Jaramillo.

31) Aéreo 780, Ibagué. **Te:** 30297. **L.P:** Mgr: N. González. V. by letter or QSL-card.

32) Aéreo 2180, Cali. **L.P:** Mgr: J. Córdoba M. V. by letter.

33) Aéreo 375, Pasto. **L.P:** Mgr: A. J. Menéses.

34) Cl. 6 No. 459, Neiva. **Te:** 5280. **L.P:** Mgr: J. Páva N.

35) Aéreo 3163, Medellin. **Te:** 419027. **L.P:** Dir. Gen: J. Tobón de la Roche. V. by letter. Rp.

36) Villavicencio. **Te:** 2657. **L.P:** Adm: B. Otéro L.

37) Aéreo 8467, Bogotá. **Te:** 415036. **L.P:** Mgr: J. Tobón de la Roche. V. by letter.

38) Aéreo 1972, Cali. **Te:** 86783. **Cable:** Radiosol. **L.P:** Mgr: M. Martinez. **Ann:** "Esta es R. El Sol, 980kc, canal preferencial, onda corta 6140kc, banda internacional de 48 mts; del Circuito Todelar de Colombia, R. El Sol de Cali, en dos frequencias para cubrir toda la república". V. by letter.

39) Aéreo 535, Popayan. **Te:** 1770. **L.P:** Mgr: L. Burckhardt. V. by letter.

40) Cr. 15 No. 1347, Bogotá. **Te:** 344805. **Cable:** Nuevagranada. **L.P:** Mgr: A. Meza J. **D.Prgr:** N: 12.00, 17.30, 23.30, 02.30, 04.45. **Ann:** "Transmite R. Cadena Nacional por su emisora Nueva Granada de Bogotá, RCN, el sistema radial más poderoso de Colombia, HJKL 610kc onda larga y HJKL 6160kc onda corta" V. by QSL-card. Re. in Sp, E. Recordings accepted – **F.Pl:** 50kW on 610kc.

41) Aéreo 4392, Cali. **Te:** 83090. **L.P:** Adm: L. Ruiz. V. by letter.

Medium Waves:

42) **R. Libertad**, Aéreo 2693, Barranquilla. **L.P:** Dir: N. Fayad Moises – 43) **R. Tricolor**, Av. 2 No. 2758, Cali. **Te:** 63812. **L.P:** Mgr: J. A. Vanegas, 24 h

44) **R. Manizales**, Aéreo 67, Manizales. **Te:** 21030. V. by letter.

45) **La Voz Santa Marta**, Cr. 3 No. 1830, Santa Marta – 46) **Emisora Monserrate**, Aéreo 13018, Bogotá – 47) **R. Uno**, Cl. 11 No. 920, Cali. **L.P:** Mgr: B. Tobón M – 48) **R. Tricolor**, Medellin. 24 h – 49) **R. Miramar**, Aéreo 246, Cartagena.

50) **La Voz Colombia**, Aéreo 10556, Bogotá. **Te:** 437027. **L.P:** Mgr: J. Sánchez V. – 51) **Emisoras Unidas**, Aéreo 154, Barranquilla. **Te:** 10120. **Cable:** Emisunidas – 52) **R. Tricolor**, Aéreo 7766, Bogotá.

53) **La Voz de Antioquia**, Cl. 53 No. 4680, Medellin. **Te:** 450838. **L.P:** Mgr: A. Toro M. – 54) **La Voz Barranquilla**, Barranquilla.

55) **Voz Amiga**, Bogotá. See i) – 56) **R. El Pais**, Edif. Lloreda, Cali – 57) **Ecos de la Montaña**, Aéreo 1864, Medellin – 58) **R. Atalaya**, Cl. 35 No. 2181, Bucaramanga – 59) **La Voz del Rio Cauca**, Cr. 1 No. 1839, Cali. **Te:** 72730.

60) **Ondas Caribe**, Aéreo 757, Santa Marta – 61) **Emisora Nuevo Mundo**, Bogotá. See d) – 62) **Voces de Occidente**, Cr. 14 No. 225, Buga. **L.P:** Mgr: R. Antonio A. – 63) **Emisoras Fuentes**, Aéreo 1771, Cartagena – 64) **Voz Amiga**, Aéreo 4535, Cali – 65) **La Voz del Café**, Edif. Banco Cafetero, Pereira. **Te:** 8941. **L.P:** Mgr: F. Maldonado.
66) **Emisora Mil Veinte**, Aéreo 10556, Bogotá. **Te:** 437027 – 67) **Voz Galeras**, Cr. 22 No. 1947, Pasto – 68) **Ondas de Cienaga Grande**, Cienaga – 69) **Emisora Claridad**, Aéreo 2094, Medellin. **Te:** 81900.
70) **La Voz Libertadores**, Aéreo 1030, Duitama.
71) **R. Kalamary**, Aéreo 397, Barranquilla. **L.P:** Mgr: E. Ariza.
72) **R. Melodia**, Aéreo 7766, Bogotá. **Te:** 444917. 12.00–05.00
73) **La Voz Triunfo**, Cr. 51 No. 5131, Medellin. **L.P:** Mgr: L. E. Ramirez – 74) **R. Palmira**, Aéreo 280, Palmira. **L.P:** Mgr: O. Burckhardt – 75) **R. Bucarica**, Cl. 35 No. 2181, Bucaramanga – 76) **Emisora Sinu**, Aéreo 148, Monteria.
77) **R. Reloj**, Cr. 53 No. 4680, Medellin. **Te:** 450515. **L.P:** Mgr: H. Restrepo A. – 78) **R. Musical**, Cl. 11 No. 920, Cali – 79) **La Voz Cucuta**, Av. 5 No. 832, Cucuta. **Te:** 2035. **L.P:** Mgr: C. Pérez A.
80) **La Voz Armenia**, Aéreo 617, Armenia – 81) **Voz Sogamoso**, Sogamoso – 82) **R. Reloj**, Cr. 43 No. 7214, Barranquilla. **Te:** 47911 – 83) **R. Reloj**, Cl. 19 No. 848, Bogotá. See d) – 84) **Pontif. Bolivariana**, Aéreo 1178, Medellin – 85) **R. Reloj**, Cr. 1 No. 1839, Cali. **Te:** 87556 – 86) **R. Cartago**, Aéreo 2, Cartago – 87) **R. Tunja**, Tunja – 88) **Emis. Riomar**, Aéreo 2010, Barranquilla – 89) **Voz Amiga**, Aéreo 1463, Medellin.
90) **La Voz del Valle**, Cali – 91) **R. Girardot**, Cl. 14 No. 1119, Girardot
92) **Pregones del Quindio**, Edif. Banco Cafetero, Armenia. **Te:** 1200. **L.P:** Mgr: L. Dávila M. – 93) **Ondas del Rio**, Aéreo 503, Magangué – 94) **El Mundo en Bogotá**, Cr. 7 No. 1714, Bogotá. **Te:** 429022. **L.P:** Mgr: A. Castaño C. – 95) **R. Las Lajas**, Ipiales – 96) **R. Barranca Bermeja**, Edif. S. Fe, Barranca Bermeja. **Te:** 2121. **L.P:** Mgr: M. Aristizábal – 97) **Emis. Villa Cespedes**, Aéreo 126, Tulua – 98) **La Voz Ruiz**, Cr. 22 No. 2337, Manizales. **Te:** 2423 – 99) **R. Santander**, Aéreo 1100, Bucaramanga.
100) **R. Tumaco**, Tumaco – 101) **La Voz Costa**, Barranquilla – 102) **R. Cordillera**, Aéreo 8467, Bogotá – 103) **Ondas del Valle**, Cr. 5 No. 1223, Cartago – 104) **R. Nueva Epoca**, Fusagasugá – 105) **R. Colibri**, Aéreo 4552, Medellin (Itagui).
106) **Sultana del Valle**, Aéreo 6045, Cali – 107) **R. Cordobesa**, Cl. 30, Cr. 3–4, Monteria – 108) **La Voz Litoral**, Cl. 72 No. 4363, Barranquilla. **Te:** 41844. **L.P:** F. Maldonádo – 109) **R. Juventud**, Aéreo 10951, Bogotá. See h).
110) **Emisora Cultural Bolivar**, Ipiales – 111) **Voz Americas**, Edif. Bolivar 1850 No. 5140, Medellin – 112) **R. Calidad**, Cali – 113) **R. Vigia**, Aéreo 154, Barranquilla. **Te:** 10120. 24 h. **V.** by letter – 114) **Voz Frontera**, Av. 5 No. 842, Cucuta. **Te:** 3118 – 115) **Emis. Mariana**, Pasto – 116) **R. Modelo**, Cr. 13 No. 1281, Bogotá. **Te:** 437384 – 117) **Emis. Siglo XX**, Cr. 51 No. 5963, Medellin – 118) **R. Bolivar**, Aéreo 4882, Cali – 119) **R. Morgan**, S. Andres Isl.
120) **Voz Nevádo**, Ibaqué. **Te:** 34830 – 121) **R. Duitama**, Duitama – 122) **La Voz de Cienaga**, Cienaga – 123) **Onda Libre**, Aéreo 520, Pereira – 124) **R. Compás**, Aéreo 1337, Bucaramanga – 125) **La Voz Cartagena**, Aéreo 246, Cartagena.
126) **R. Metropolitana**, Aéreo 7766, Bogotá. **Te:** 457073. 24 h.
127) **R. Pasto**, Cr. 19 No. 1650 Ave. Las Americas, Pasto. **Te:** 2947. **L.P:** Mgr: A. González – 128) **Voz Rio Suarez**, Barbosa – 129) **R. Sur**, Pitalito.
130) **R. Libertador**, Cr. 3 No. 1580, Cali. **L.P:** Mgr: R. Angulo.
131) **Ondas Puerto**, Cl. 15 No. 11 A 54, Girardot – 132) **R. Ritmos**, Medellin – 133) **Transm. Rio**, Monteria – 134) **R. Urabá**, Edif. Banco Popular, Apartadó – 135) **R. S. Eugenio**, Cr. 15 No. 1532, S. Rosa de Cabal – 136) **Transmisora Guia**, Cl. 36 No. 2150, Bucaramanga. **Te:** 28088. **L.P:** Mgr: R. Pérez – 137) **Voz Patria**, Aéreo 231, Barranquilla. **L.P:** Dir: C. Vasallo – 138) **R. Quince**, Cl. 19 No. 848, Bogotá. **Te:** 418659. **L.P:** F. Londoño H – 139) **R. Catatumbo**, Aéreo 19, Ocaña.
140) **Voz Amistad**, Pasto – 141) **Ondas del Huila**, Cl. 7 No. 324, Neiva – 142) **R. Furatena**, Chiquinquira – 143) **R. Luna**, Palmira – 144) **La Voz Independencia**, Medellin – 145) **Voz Tocarema**, Girardot – 146) **La Voz de Pereira**, Cr. 18 No. 854, Pereira – 147) **Transmisora Sucre**, Cl. F. H. Pórras 2037, Sincelejo – 148) **R. Vigia**, Aéreo 1771, Cartagena. **Te:** 13004. **Cable:** Vigia. 24 h. **V.** by letter – 149) **La Voz Sabana**, Cr. 42 No. 1394, Bogotá. **Te:** 479167.
150) **La Voz Candelaria**, Medellin. **Te:** 50662. 10.00–05.00
151) **R. Sideral**, Aéreo 2146, Cali – 152) **La Voz de Chaparral**, Chaparral – 153) **Ecos del Rio**, Puerto Boyacá – 154) **La Voz Anserma**, Anserma – 155) **Emis. José A. Galán**, Socorro. **L.P:** Mgr: M. Rojas V. – 156) **R. Sabanas**, Cl. 24, Cr. 18 y 19, Sincelejo. **Te:** 2992. **L.P:** Mgr: N. Miserque A – 157) **R. Piloto**, Aéreo 320, Barranquilla – 158) **R. Guaimaral**, Cucuta – 159) **R. Mundial**, Aéreo 20333, Bogotá.
160) **Armonias del Palmar**, Cr. 29 No. 3290, Palmira. **Te:** 3344. **L.P:** Mgr: J. Bejarano D – 161) **Armonias del Sur**, Aéreo 192, Neiva – 162) **La Voz Dorada**, Cr. 3 No. 255, La Dorada. **Te:** 7171. **L.P:** Mgr: A. Suarez – 163) **R. Santa Barbara**, Santa Barbara – 164) **R. Luz**, Aéreo 284, Manizales – 165) **R. Comercio**, Cr. 36 No. 2150, Bucaramanga. **Te:** 25418. **L.P:** Mgr: R. Pérez – 166) **La Voz Cereté**, Cereté – 167) **Emis. Variedades**, Cr. 35 No. 35106, Barranquilla – 168) **La Voz Gran Colombia**, Edif. Banco Comercio, Cucuta – 169) **R. Ipiales**, Cl. 7 No. 537, Ipiales.
170) **Emis. Mariana**, Cr. 7 No. 610, Bogotá. **Te:** 462712 – 171) **R. Magdalena**, Aéreo 706, Santa Marta. **Te:** 3300. **L.P:** Mgr: R. Moráles – 172) **Emis. Guadalajara**, Cr. 13 No. 584, Buga – 173) **Ondas del Guali**, Ave. Centenario, Honda. **Te:** 1440. **L.P:** Mgr: L. Eduárdo T – 174) **La Voz Calarca**, Calarcá – 175) **R. Pipatón**, Barranca Bermeja – 176) **R. Bahia**, Aéreo 1771, Cartagena. **Te:** 13405. **L.P:** Mgr: E. Emiliani R – 177) **R. Pamplona**, Pamplona – 178) **R. Belalcazar**, Cr. 5 No. 581, Popayán – 179) **Ondas de Riohacha**, Riohacha.
180) **Ondas de Ibagué**, Edif. Raad, Ibagué. **L.P:** Mgr: L. E. Martinez R – 181) **R. Tuluá**, Aéreo 130, Tuluá – 182) **R. Sogamoso**, Cr. 11 No. 1005, Sogamoso – 183) **R. Sinfonia**, Medellin – 184) **R. Sintonia**, Villamaria Cds – 185) **R. Sincelejo**, Sincelejo – 186) **La Voz de Pamplona**, Pamplona – 187) **Nueva Continente**, Cr. 9 No. 1333, Bogotá – 188) **R. Armonia**, Medellin – 189) **La Voz Paraiso**, Cerrito V.
190) **R. Quibdó**, Quibdó – 191) **R. Centinela**, Aéreo 221, Pereira – 192) **R. Palonegro**, Lebrija – 193) **La Voz Monteria**, Monteria – 194) **Ondas Femeninas**, Bogotá – 195) **R. Guatapuri**, Aéreo 51, Valledupar – 196) **R. Garzón**, Garzón – 197) **R. Boyaca**, Tunja – 198) **R. Calima**, Darién – 199) **R. Sumapaz**, Cr. 7 No. 535, Fusagasugá. **Te:** 2000.
200) **La Voz Katia**, Medellin – 201) **La Voz Panamericana**, Bucaramanga – 202) **R. Estrella**, Aéreo 617, Armenia – 203) **R. Progreso** de Cordoba, Lorica. **L.P:** Mgr: S. C. Hnos – 204) **La Voz de Chapinero**, Aéreo 11279, Bogotá. **Te:** 481359. **L.P:** Mgr: H. Florez – 205) **R. Minuto**, Barranquilla – 206) **R. Popayán**, Cr. 12 No. 427, Popayán. **Te:** 2409. **L.P:** Mgr: M. González M – 207) **Liceo Departamental**, Sonson – 208) **R. Sevilla**, Cr. 50 No. 4211, Sevilla V – 209) **R. Armero**, Armero.
210) **Emis. Mariana**, Manizales – 211) **R. Canoa**, Turbaco – 212) **R. Magangué**, Magangué. **L.P:** Mgr: J. Raad – 213) **R. Fantasia**, Cl. 12 No. 527, Bogotá. **Te:** 429435 – 214) **R. Parroquial**, Nemecón – 215) **Armonias Norte Vallecaucana**, Caicedonia – 216) **R. Copacabana**, Copacabana – 217) **R. Sensación**, Manizales – 218) **Ls Voz Cordialidad**, Aéreo 2702, Barranquilla – 219) **Voz Zipaquira**, Zipaquirá – 220) **La Voz del Banco**, Aéreo 89, El Banco – 221) **R. Ciudad Milagro**, Armenia.

ECUADOR

L.T: GMT–5 h – **Pr.L:** Spanish, Quechua.

INSPECCION DE RADIO, Ministerio de Publicas, Direccion Tecnica – **ADDR:** Benalcazar 698, Quito. **Te:** 11019. **Cable:** Radionacional – **L.P:** Dir. Gen: G. Jarrin A.

ASOCIACION ECUATORIANA DE RADIODIFUSORAS
ADDR: Apt. 289, Quito. **Te:** 10669. **Cable:** AER.
STATIONS: Short Waves: Call: HC–––. * inactive.

	Call	kc	m	kW	Name and h of tr.
1)	VA4	2470	121.5	5	La Estacion de la Alegria, Esmeraldas: 11.30–04.00
2)	GB4	2480	121.0	0.35	R. Nac. Espejo, Esmeraldas: 12.00–04.00
3)	HW2	2490	120.5	0.45	R. Rey, Quevedo: 14.00–19.00, 21.00–04.00
4)	LP3	3215	93.30	0.25	La Voz de el Oro, Pasajo: 13.00–19.00, 23.00–04.00
5)	RE1	3220	93.15	1.5	R. Nac. Espejo, Sto. Domingo Cds: 24 h
6)	JC1	3240	92.59	0.2	R. Atuntaqui: 16.00–03.30
7)	LM3	3245	92.45	0.2	La Voz de Pasaje: 11.00–04.00
8)	MZ6	3265	91.87	0.2	Voz del Rio Chimbo: 11.00–04.00
9)	VU2	3275	91.60	0.2	La Voz de Urdaneta, Ricaurte: 10.00–07.00
10)	JT1	3340	89.81	0.3	R. Tulcan: 12.30–17.00, 22.30–04.00
11)	DR4	3355	89.42	0.2	R. Miramar, Bahia: 23.00–03.00
12)	DY4	3372	88.96	0.25	R. Iris, Esmeraldas: 11.00–05.00
13)	OT1	3390	88.50	0.2	R. Zaracay, Sto. Domingo Cds: 10.00–07.00
14)	KD5	3515	85.35	0.2	R. Centro de Gualaceo: 11.30–04.30
15)	YC4	3520	85.23	0.2	R. Escuelas Radiales, Lita: 23.00–03.00
16)	HA2	3610	83.13	0.25	Ondas Quevedañas, Quevedo: 23.00–03.00
17)	GS6	3615	86.00	0.4	R. Pillaro: 11.30–19.00, 21.00–03.30
18)	MR1	3640	82.41	0.5	R. Cayambe: 11.30–13.30, 23.30–03.30
19)	IE1	3695	80.95	0.5	R. Cotacachi: 11.00–03.00
20)	BH6	3755	79.90	0.4	R. Latacunga: 11.00–19.00, 22.00–04.00
21)	WN1	3835	78.20	0.35	La Voz del Triunfo, Sto. Domingo Cds: 23.00–04.00
22)	PZ1	3950	79.95	0.3	R. Rumichaca, Tulcan: 11.45–14.30, 16.00–04.00
23)	JH1	3965	75.67	0.3	R. Turismo, Otavalo: 12.00–14.00, 17.00–19.00, 23.00–03.00
24)	SN6	3975	75.47	0.6	R. Sira, Ambato: 11.00–23.30, 01.00–04.00
25)	ER5	3985	75.28	1	Escuelas Radiofonicas Populares, Riobamba: 10.30–12.30, 17.00–18.00, 21.00–23.30
26)	JA5	3990	75.19	0.5	La Voz del Rio Tarqui, Cuenca: 10.00–05.00

	Call	kc	m	kW	Name & h of tr.
27)	BK2	4750	63.96	0.25	R. El Mundo, Guayaquil: 13.00–19.30, 21.45–04.00
28)	LJ6	4755	63.10	0.2	La Voz de Bolivar, Guaranda: 23.30–04.00
29)	2AK	4765	62.95	2	R. Dif. del Ecuador, Guayaquil: 11.00–05.00
30)	MX4	4770	62.89	0.4	R. Cenit, Portoviejo: 11.00–13.00, 15.00–04.55
31)	EH3	4775	62.84	0.2	R. El Progreso, Loja: 11.00–15.00, 17.00–20.00, 00.00–03.00
32)	MQ1	4780	62.76	1	R. Atahualpa, Quito: 10.45–04.35
33)	AU2	4790	62.63	0.25	R. Atalaya, Guayaquil: 11.00–05.00
34)	SV5	4800	62.50	0.25	R. Amazonas, Cuenca: 11.00–20.00, 23.00–04.00
35)	FA4	4810	62.37	0.3	La Voz de Manabi, Portoviejo: 11.00–05.00
36)	JS1	4830	62.10	0.5	Ondas del Angel, El Angel: 15.30–19.00, 22.00–03.00
37)	AP4	4835	62.05		La Voz del Valle, Portoviejo: 11.00–13.00, 16.00–04.00
38)	RM3	4845	61.92	0.38	R. Cultural Machala: 11.00–19.00, 00.00–05.00
39)	CV3	4850	61.86	0.25	Ondas del Zamora, Loja: 23.00–03.00
40)	MA1	4855	61.79	0.35	R. Novedades, Quito: 12.00–03.00
41)	CD1	4865	61.66	1	R. Luz de America, Quito: 11.30–04.00
42)	GM7	4870	61.60	0.3	R. Rio Amazonas, Macuma: 23.00–03.00
43)	VE4	4875	61.54	3	La Voz de Esmeraldas: 10.00–13.00, 23.00–06.00
44)	WE1	4880	61.48		R. Nac Espejo, Quito: 24 h
45)	VS6	4904	61.18	0.42	La Voz de Saquisili: 12.00–17.30, 21.00–03.00
46)	MJ1	4910	61.10	0.3	Emis. Gran Colombia, Quito: 11.00–06.00
47)	AH3	4916	61.03	0.3	R. El Trebol, Zaruma: 23.00–03.00
48)	MP2	4920	60.98	0.2	La Voz de la Peninsula, La Libertad: 21.00–03.00
49)	JX6	4920	60.98	0.35	R. Cultural Religiosa, Baños: 23.00–03.00
50)	RQ1	4923	60.94	5	R. Quito: 24 h
51)	CR1	4930	60.85	10	R. Casa de la Cultura, Quito: 11.30–13.00, 17.00–19.00, 00.00–03.15
52)	XZ1	4940	60.73	10	R. Nacional del Ecuador, Quito: 11.00–14.00, 00.00–05.00
53)	AV3	4950	60.60	2	R. Ondas Lojanas: 11.00–14.00, 17.00–20.00, 00.00–03.00
54)	PH5	4960	60.48	1	La Voz del Chofer, Riobamba: 23.00–03.00
55)	GH1	4970	60.35	3	R. Tarqui, Quito: 10.45–04.00
56)	JC5	4980	60.24	0.3	Ondas Azuayas, Cuenca: 10.45–05.00
57)	SJ1	4990	60.12	1	R. Javier, Quito: 11.00–15.00, 16.45–17.30, 22.00–03.00
58)	AS4	5010	59.88	0.5	La Voz de los Caras, Bahia: 11.00–05.00
59)	RP1	5015	59.82	0.5	R. Católica, Quito: 10.35–17.00, 22.00–03.00
60)	OB5	5025	59.70	0.2	Ondas Azules, Cuenca: 11.30–04.00
61)	PS5	5250	57.25	2	Ondas Cañaris, Azogues: 11.00–14.00, 15.45–19.00, 21.45–04.00
62)	CV5	5950	50.42	0.3	La Voz de los Cuatro Rios, Cuenca: 11.30–04.00
63)	DF1	5955	50.38	0.6	La Voz del Norte, Ibarra: 11.30–17.30, 23.00–04.00
64)	TR1	5960	50.34	0.75	R. Equinoccial, Ibarra: 11.45–02.00
65)	RT6	5980	50.17	0.45	R. Paz y Bien, Ambato: 11.30–20.00, 23.00–02.00
66)	GR5	5985	50.13	0.5	R. Mundial, Riobamba: 23.00–03.00
67)	MH6	5975	50.21	0.5	Org. Radiofonica del Cotopaxi, Latacunga: 12.00–15.00, 16.00–20.00, 22.00–04.30
68)	EB4	6015	49.88	0.5	R. Manta: 12.00–14.00, 17.00–19.00, 23.00–04.50
69)	JB	6050	49.50	30	La Voz de Los Andes, Quito
70)	AC1	6060	49.50	0.75	La Voz de la Democracia, Quito: 11.30–04.30
71)	EM1	6065	49.46	1	Ondas Carchenses, Tulcan: 13.00–03.00
72)	IW5	6070	49.42	0.5	R. El Mercurio, Cuenca: 11.00–05.00
73)	DG2	6080	49.34		R. Bolivar, Guayaquil: 12.00–05.00
74)	SP4	6085	49.30	1	La Voz del Volante, Portoviejo: 11.00–05.00
75)	FB2	6130	48.94	1.5	R. Nacional Condor, Guayaquil: 09.00–06.00
76)	EM4	6150	48.78	0.3	R. Costa Azul, Portoviejo: 11.00–05.00
77)	PJ2	6170	48.62	0.25	R. Fluminense, Ricaurte: 23.00–03.00
69)	JB	6185	48.50	30	La Voz de los Andes, Quito
78)	EH6	6195	48.43	1.5	R. Cosmopolita, Ambato: 12.00–03.30
79)	NK3	6235	48.10	0.5	R. Cariamanga: 11.00–15.00, 17.00–19.00, 23.00–04.00
80)	VC3	6250	48.00	0.75	R. Centinela del Sur, Loja: 23.00–04.00
83)	JZ3	9570	31.35	1	R. Fenix, Zaruma: 11.30–15.30, 17.00–19.00, 23.00–04.00
69)	JB	9645	31.10	30	La Voz de Los Andes, Quito
69)	JB	9745	30.78	1/30	La Voz de Los Andes, Quito
69)	JB	11755	25.52	30	La Voz de Los Andes, Quito
69)	JB	11770	25.49	30	La Voz de Los Andes, Quito
69)	JB	11890	25.23	30	La Voz de Los Andes, Quito
69)	JB	11910	25.19	30	La Voz de Los Andes, Quito
69)	JB	11915	25.18	30	La Voz de Los Andes, Quito
69)	JB	15110	19.85	30	La Voz de Los Andes, Quito
69)	JB	15115	19.85	1/30	La Voz de Los Andes, Quito
69)	JB	15405	19.47	30	La Voz de Los Andes, Quito
69)	JB	17890	16.77	30	La Voz de Los Andes, Quito

Medium Wave: Call: HC---. °=Short Wave.

	Call	kc	kW		Call	kc	kW		Call	kc	kW
81)	DG1	550	5	119)	JM1	950	0.5	161)	FA1	1245	0.35
82)	RM2	560	10	120)	MC2	955	0.25	162)	RB2	1250	1
83)	RM1	570	1	121)	NC1	960	0.4	163)	BO6	1260	0.35
84)	SP1	595	0.2	13)	OT1	°965	0.2	56)	JE5	°1265	0.25
85)	RL6	600	5	122)	MB1	970	0.35	164)	UM2	1270	0.25
86)	PC2	°610	1	123)	AW2	975	5	165)	JC6	1275	0.36
87)	RF3	°625	0.3	124)	JI5	980	0.5	70)	AB1	°1280	0.35
88)	CS2	630	0.35	55)	GI1	°990	3	26)	JA5	°1290	0.5
52)	XY1	°640	10	125)	EW2	995	5	166)	MS1	1295	0.3
89)	FM2	665	0.45	126)	RO6	1000	0.2	167)	VM6	1295	0.2
57)	SJ1	°670	1	127)	RV5	1005	1.5	168)	DC2	1300	1
33)	AU2	°675	0.25	128)	RC4	1010	0.7	44)	GB1	°1310	0.4
90)	WC1	680	0.2	129)	RS6	1015	0.75	169)	JD6	1320	1
91)	RS2	695	0.25	130)	LV1	1020	0.25	170)	FR2	1325	1
69)	JB1	°700	30	131)	TO5	1027	0.25	171)	PX1	1335	0.3
37)	AM4	°715	1	132)	RR2	1030	1	172)	OF4	1340	0.2
92)	IC1	720	0.4	133)	CW1	1040	0.7	173)	PV2	1350	
93)	FA2	725	0.7	29)	AJ2	°1050	5	65)	PB6	°1355	0.25
94)	SE4	735	0.25	134)	AC6	1060	0.3	50)	RQ1	°1360	3
95)	BG1	740	1.5	135)	RV3	1065	1.5	174)	HA2	1370	0.25
96)	CT2	750		136)	VP1	1070	0.5	175)	JR6	1375	1
97)	MF2	770	1	137)	GB6	1075	0.5	176)	JN1	1385	0.5
98)	RG4	780	0.3	138)	FD2	1080	5	62)	CV5	°1390	0.3
99)	AA1	785	0.2	139)	MG1	1090	0.35	8)	VE4	°1395	
100)	PT5	790	1	140)	ED5	1090	0.25	177)	FL2	1400	0.2
73)	DE2	°800	10	141)	RR6	1095	0.4	178)	BS4	1400	0.3
101)	FV1	805	0.5	142)	RR5	1100	1.5	46)	MI1	°1410	0.3
102)	VT2	810	0.2	143)	EG1	1111	0.5	179)	CV6	1420	0.3
53)	AV3	°815	0.25	144)	LA2	1115	0.2	180)	MB2	1425	0.5
5)	EE1	°825	1.5	42)	GM7	°1120	0.3	51)	BX1	°1430	1
41)	CD1	°835	1	145)	AO5	1120	0.25	181)	OV5	1440	1
103)	ET6	845	0.8	146)	PV6	1125	0.3	54)	SC5	°1445	0.2
104)	AJ2	850	1	147)	RT1	1130	0.3	182)	AQ2	1450	0.25
105)	VN4	855	0.25	75)	FB2	°1140	0.25	183)	GM1	1460	0.25
106)	OA7	865	0.4	148)	RG1	1145	5	184)	ET4	1465	0.2
107)	NY2	870	5	149)	CZ5	1150	0.3	185)	FP1	1470	0.3
59)	RP1	°880	0.5	150)	UE6	1165	0.5	186)	EJ3	1475	0.22
108)	LG3	885	0.2	151)	VJ5	1170	0.25	32)	LC1	°1490	1
109)	TL5	890	0.5	152)	LR1	1180	0.5	187)	WN5	1496	0.4
110)	GC2	895	2	153)	BE2	1190	0.3	188)	RO1	1500	0.2
111)	RJ1	900	1.2	154)	CS1	1195	0.5	189)	VP6	1505	0.2
60)	EV5	°900	0.2	72)	RM5	°1200	2	190)	VR1	1520	1.2
66)	GR5	°910	0.2	155)	RQ2	1205	0.3	61)	OC5	°1530	1
112)	RU3	914	0.2	156)	GU1	1210	0.4	67)	MH6	°1535	0.5
113)	CM1	920	0.5	157)	SF5	1215	0.2	191)	OS4	1540	0.25
114)	VL2	925	0.3	21)	BJ2	°1220	0.25	192)	DJ1	1545	
115)	IM1	930	0.3	24)	JM6	°1225	0.6	78)	EJ6	°1550	0.5
116)	UE5	935		158)	RI1	1230	0.22	193)	TR3	1555	0.5
117)	MT1	940	0.5	159)	MV5	1235	0.2	40)	AP1	°1570	0.35
118)	DE2	945	1	160)	LA5	1240	0.5	194)	AI6	1580	1

Short Waves:

1) Ca. Bolivar 831, Esmeraldas. L.P: Dir. Gen: Dr. J. C. Plaza L. V. by letter – 2) Esmeraldas. L.P: Dir: G. Brobrich. Ann: "R. Nacional Espejo, la primera y mas potente emisora del pais". V. by QSL-card. 3) Quevedo. L.P: Dir: E. Muñoz – 4) Pasaje. L.P: Dir: L. Peralta P. 5) Sto. Domingos de los Colorados. L.P: Dir: G. Brobrich. 6) Atuntaqui. L.P: Dir: J. Cadena – 7) Pasaje – 8) San Jose de Chimbro. L.P: Dir: M. Zanipatin – 9) Ricaurte. L.P: Dir: C. Casal M. 10) Tulcan. L.P: Dir: J. Betancourt – 11) Bahia – 12) Cas. 142, Esmeraldas. L.P: Dir: D. Alvarez T – 13) Sto. Domingo de los Colorados. 14) Gualaceo – 15) Campamento Lita – 16) Quevedo – 17) Salcedo. L.P: Dir: G. Salazar – 18) Cayambe. L.P: Dir: M. Rodriguez. 19) Cotacachi – 20) Latacunga – 21) Sto. Domingo de los Colorados. 22) Tulcan. L.P: Dir: E. Cabezas – 23) Otavalo. L.P: Dir: J. Vivar. 24) Ambato. L.P: Dir: J. Mancero. 25) Apt. 36, Riobamba. L.P: Dir. Gen: R. Veloz. Dir. Tec: F. Greindl. V. by letter – 26) Cuenca. L.P: Dir: M. Pullas C – 27) 9 de

Ortubre 308, Guayaquil. **L.P:** G. Vergara J – 28) Guaranda. **L.P:** Dir: J. Alarcon.
29) P.O. Box 4144, Guayaquil. **Cable:** CRE. **L.P:** Dir. Gen: R. Guerreo V. Dir. Tec: J. Magen. **D.Prgr:** N: every h on the h. **Ann:** "Esta es la C.R.E. de Guayaquil, Ecuador, 1050kc onda larga, 4765kc onda corta". V. by letter. Recordings accepted. **F.Pl:** TV – 30) Portoviejo. **L.P:** Dir: W. Delgado – 31) Loja. **L.P:** Dir: E. Herrera G.
32) Apt. 3213, Quito. **Te:** 12385. **Cable:** Rahualpa. **L.P:** Dir. Gen: G. Maldonado. Dir. Tec: L. Calderon. Dir. Foreign Rel: Miss L. Rivadeneira. **D.Prgr:** mw: 10.45–04.35. N: 11.00, 18.00, 19.00, 23.00, 01.00, 03.00 and every 30 min's from 11.00–04.30 (on all st's). **Ann:** "Les habla R. Atahualpa, emisora matriz del Circuito HCMQ, transmite en 1490kc, canal perferencial y 4780kc, canal nacional, desde Quito, capital del Ecuador". V. by letter.
33) Guayaquil – 34) Cuenca – 35) Portoviejo. **L.P:** Dir: C. Chavez C.
36) El Angel. **L.P:** Dir: J. Salazar – 37) Portoviejo – 38) Machala.
39) 24 de Mayo, Loja – 40) Quito.
41) Apt. 3190, Quito. **Te:** 16717. **L.P:** Dir: A. Davila. Dir. Tec: F. Castillo. **Ann:** "Aqui Emisoras Luz de America, Quito, Ecuador". V. by letter – 42) Macuma.
43) P.O. Box 1660, Esmeraldas. **Te:** 1106. **L.P:** Dir. Gen: H. A. Endara E. Dir. Tec: Ing. Horvath. **D.Prgr:** N: 23.30. **Ann:** "La Voz de Esmeraldas, La Voz del Pueblo, una emisora para la gente moderna y de buen gusto como Vd". V. by letter. Recordings accepted.
44) Quito. **Ann:** "R. Nacional Espejo la primera y mas potente emisora del pais". V. by QSL-card – 45) Saquisili.
46) Cas. 2246, Quito. **Te:** 11670. **Cable:** Emigrancolombia. **L.P:** Dir. Gen: E. Cevallos. Dir. Tec: G. Sanchez. **D.Prgr:** N: 11.00, 18.00, 03.00. **Ann:** "Emisoras Gran Colombia, Voz de Ecuador es la emisora mas popular. Con programas de calidad Gran Colombia es la mejor". V. by letter. Recordings accepted. **F.Pl:** 20kW + TV-st – 47) Zaruma – 48) La Libertad. **L.P:** Dir: M. Pinargote –.49) Baños.
50) Apt. 57, Quito. **Te:** 10151. **L.P:** Dir. Gen: C. Mantilla. Dir. Tec: A. Horvath. Dir. Prgr: E. Téran. **D.Prgr:** mw: 11.30–04.30. N: 12.00, 13.15 and every h on the h from 17.00. **Ann:** "R. Quito, La Voz de la Capital... 1360 y 4923kc desde Ecuador". V. by letter. **F.Pl:** 5kW
51) Apt. 67, Quito. Te: 31123. **L.P:** Pres: Dr. B. Carrion. **D.Prgr:** N: 11.45, 03.00. **Ann:** "Esta es R. difusora de la Casa de la Cultura Ecuatoriana, que transmite desde sus estudios en la ciudad de Quito". V. by letter. Re. in Sp. **Pub:** Prgr.sched. on request.
52) P.O. Box 1316, Quito. **Te:** 16998. **L.P:** Pres & Dir. Gen: Dr. H. Donose V. Dir. Tec: F. Mejia C. Dir. Prgr: A. Carrera P. **D.Prgr:** mw: 11.00–19.30, 23.00–05.00. N: 11.30, 01.00, 03.30. **For Tourists:** 04.00. **Ann:** "En transmissión Radiodif. Nacional del Ecuador, Voz oficial del Estado Ecuatoriano 640kc onda nacional, 4940kc onda internacional, desde Quito, Ecuador, en la mitad del mundo". **Int-Sig:** Vibraphone. V. by letter. Recordings accepted. **F.Pl:** 100kW (Quito), 50kW (Guayaquil), 10kW (Cuenca).
53) Loja – 54) Sindicato de Choferes, Riobamba – 55) Plaza del Teatro, Quito. **L.P:** Dir: G. Herdoiza. V. by letter.
56) Apt. 4980, Cuenca. **L.P:** Dir: A. Cardozo. V. by letter.
57) Quito – 58) Bahia – 59) Ca. Imbabura 1149, Quito. Te: 10208. **L.P:** Dir: Dr. M. A. Rojas. Dir. Tec: L. Calderon. V. by letter. **F.Pl:** 10kW – 60) Cuenca. **L.P:** Dir: R. E. Valencia.
61) Ca. Rivera, Azogues. **L.P:** St. Mgr: I. Dominguez V. Dir. Tec: L. Vazquez. **D.Prgr:** N: 11.30, 02.00, 03.00. **Ann:** "Ondas Cañaris en sus dos frecuencias ---". V. by letter. Recordings accepted.
62) Cuenca. **L.P:** Dir: D. Pinos – 63) Ibarra. **L.P:** Dir: F. Davilla.
64) Av. Mariano Acosta, Ibarra.
65) Cas. 94, Ambato. **Te:** 2120. **L.P:** Dir. Gen: P. H. Cerasuolo S. Dir. Tec: X. Alvarez. **D.Prgr:** N: 15.00, 03.00. **Ann:** "Radio Paz y Bien, la Voz Católica del Tungurahua". V. by letter. Recordings accepted. **F.Pl:** 5kW (mw) 1kW (sw).
66) Apt. 1244, Riobamba. **Te:** 2101. **L.P:** Dir. Gen: G. Encalada R. Dir. Tec: G. Encalada G. Dir. Foreign Rel: P. Narvaez M. **D.Prgr:** N: 12.00, 17.00, 03.00. **Ann:** "Esta es R. Mundial de Riobamba, Ecuador, Sud-America, transmitimos en 910kc onda larga y 5985kc onda corta, banda de 49 metros, cubrimos con estas ondas todo el Territorio Nacional, R. Mundial, la mejor emisora de Riobamba". V. by QSL-card. Re. in Sp, E. Recordings accepted.
67) Latacunga. **L.P:** Dir: C. Noran B.
68) Apt. 4869, Manta. **L.P:** Dir: E. Bowen. **D.Prgr:** N: 12.30, 17.00, 23.00. **Ann:** "Transmite R. Manta, con sus estaciones... la mas antigua y potente emisora del puerto, desde Manta, Ciudad de turismo y primer puerto maritimo en la Provincia de Manabi". V. by QSL-card or letter.

69) **LA VOZ DE LOS ANDES (HCJB)**
Operated by the missionary org: **The World Missionary Fellowship Inc.** No comm. adv. Public sce. and ann. of cultural activities accepted free of charge – **FI:** Supported by voluntary gifts from Evangelical Christian Groups and "Share-the-cost" plan.

ADDR: Cas. 691, Quito. **Cable:** Vozandes. (USA Office: Voice of the Andes, Box 691, Miami 47, Fla.) – **L.P:** Pres: A. Van der Puy. Dir. Gen: R. C. Savage. St. Mgr: F. Cook. Dir. Sp. Sce: A. Jamarillo. Dir. Eng. Sce: J. Roberson. Dir. Operations: F. Woodburn.

HOME SCE. in Spanish: D 10.30–04.00
10.30–11.00 on 700/6050/15115kc, 11.00–14.00 on 700/6050/9745/11755/15115kc, 14.00–00.30 on 700/6050/9745kc, 00.30–02.00 on 700/6050/9745/11915/15115kc, 02.00–04.00 on 700/6050kc. N: Mon–Fri: every h 10.30–02.30 & 03.55. Sat: every h 10.30–14.30, 17.45, 19.30, 20.30, 22.30, 23.40, 02.30, 03.55. Sun: 10.30, 17.50, 01.30.

INTERNATIONAL SERVICE

TO EUROPE	L.	Nov/Feb (kc)	March/April (kc)
04.30–05.00	Russian	6050	6050 (or 6185[1])
05.30–06.00	Swedish		
06.00–06.30	German	9645	9745 (or 9645[1])
06.30–07.00	Spanish	11910	11910
09.30–10.00(Sun)	Swedish	6050, 9745, 11915	6050, 9745, 11915
18.00–18.30 a)	Swedish	15405, 17890	15115 (or 15405[1])[2]
*18.30–18.45 a)	French		17890
*18.45–20.00 a)	English		
20.00–20.30	German	11770	11755 (or 11770[1])
20.30–21.00	Swedish	15405	15115 (or 15405[1])
21.00–21.30	English		
21.30–22.00	Spanish	11890, 15115	15115, 17890
23.30–24.00 c)	English	15115, 17890	15115, 17890

[1] The use of alternate freq's depends on interference. [2] incl. German.

TO SOUTH PACIFIC			
07.00–10.00 b)	English	6050, 9745, 11915	6050, 9745, 11915
10.00–10.30**	Japanese	9745, 11915	9745, 11915
10.30–11.30	Russian		

**) to No. Pacific.

TO CARIBBEAN			
23.30–24.00 c)	English	15115, 17890	15115, 17890

TO THE AMERICAS			
11.00–14.00	Spanish	6050, 9745, 11915, 15115	6050, 9745, 11915, 15115
14.00–00.30	Spanish	6050, 9745	6050, 9745
14.00–15.00 d)	English	15115, 17890	15115, 17890
°15.00–15.30 d)			
°°15.30–16.30 d)			
16.00–17.00(Sun)	Russian	15115, 17890	15115, 17890
22.30–23.00	Russian	15110, 17890	15110, 17890
23.00–23.30	German	15110, 17890	15110, 17890
23.30–24.00 c)	English	15110, 17890	15110, 17890
00.30–02.00	Spanish	9745, 11915, 15115	9745, 11915, 15115
02.00–04.30	Spanish	6050	6050
02.00–04.30 e)	English	9745, 11915, 15115	9745, 11915, 15115

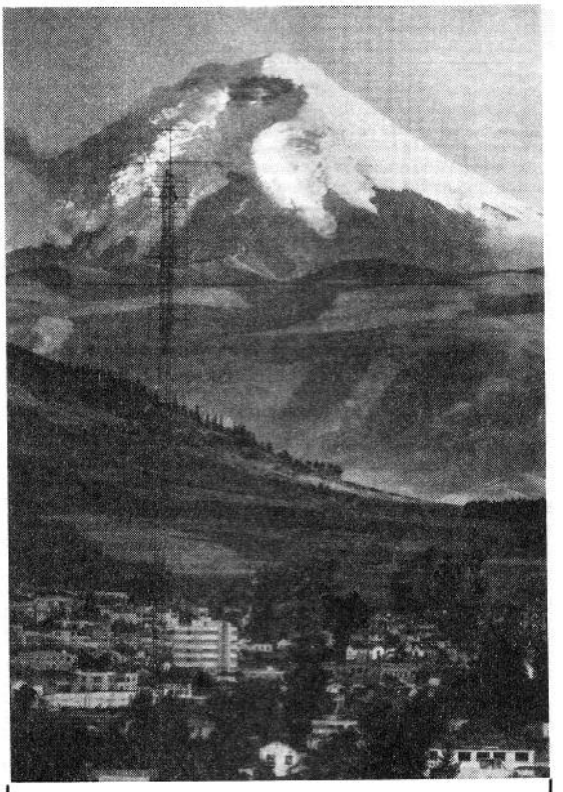
°=Sun/Mon/Sat only. °°=Sat only.

TO BRAZIL			
22.00–22.30	Japanese	15110, 17890	15110, 17890
23.00–23.30	German	15110, 17890	15110, 17890
00.00–00.30	Portuguese	15110, 17890	15110, 17890

*=D except Mon (all other prgr's D exc. as noted) – a) "Quito Calling" – b) "Southern Cross Salute" – c) "Caribbean Call" – d) "Morning in the Mountains" – e) "Ecuadorian Echoes".

NEWS: English: 14.02, 23.32. **Swedish:** Thurs 18.02, 20.32, Fri 05.32. **Japanese:** 22.02(not daily). **Spanish:** see Home Sce.
DX-Party Line: 1st & 3rd Mon of the month 02.30 (to the Americas), 1st & 3rd Wed of the month 09.30 (to Australia/New Zealand) – **Mbg.** (English): Wed 03.30, Thurs 09.30 (to Australia/New Zealand) – **Time Sig:** Automatically on h and half h. Three short tones followed by a long tone at exact minute.
ANN: E: "This is radio station HCJB located near the line of the equator with studios in the capital city of Quito in the republic of Ecuador. We are serving our internat. audience on the 19, 25 and 31 m.b. The time in Quito is... the same as... GMT. This is R. st. HCJB, Quito, Ecuador, So. America" – V. listeners reports are wanted, these are studied by our engineers. If requested they are answered by QSL-card, in other by letter – **PUB:** Int. prgr.sched. free on request. "Call of the Andes" magazine free to those requesting it from: HCJB, Box 691, Miami, Fla. 33147, USA. Sched. of Spanish prgr's on request from Casilla 691, Quito. – 70) Apt. 288, Quito.
71) Cas. 30, Tulcan. **Te:** 450. **L.P:** Dir. Gen: H. H. Herrera. Mgr: F. Almeido C. Dir. Tec: H. Becerra O. Dir. Foreign Rel: M. Aurelio V. **D.Prgr:** N: 20.00, 02.00. **Ann:** R. Ondas Carchenses". V. by letter. Re. in Sp.
72) Cuenca – 73) Guayaquil – 74) Portoviejo – 75) Boyaca 1205, Guayaquil – 76) Portoviejo.
77) Ricaurte. **L.P:** Dir. Gen: G. A. Jácome C. Mgr: W. Jácome C. Dir. Tec: A. Buhbano, G. Bravo N. **D.Prgr:** N: 11.30, 17.30, 20.00, 23.00, 04.00. V. by letter. Re. in Sp. Recordings accepted. (St. 120 belongs to 77) – 78) P.O. Box 261, Ambato. V. by letter – 79) Cariamanga. **L.P:** Dir: L. Gustava C – 80) Loja. **L.P:** Dir: F. Coronel.

Medium Waves:
81) **R. Ecuatoriana**, Quito: 10.45–05.00 – 82) **R. Mambo**, Guayaquil: 11.00–05.00 – 83) **R. Musical**, Quito: 24 h – 84) **R. San Pedro**, Amaguana: 23.00–03.00 – 85) **R. Libertador**, Saquisili: 12.00–18.00, 18.30–03.00 – 86) **R. El Tiempo**, Guayaquil: 24 h – 87) **R. Fenix**, P. O. Box 23, Zaruma. V. by letter or QSL card. 88) **Centro Radiofonico Sideral**, Quevedo: 13.00–05.00 – 89) **R. Ventanas**, Ventanas: 23.00–03.00.
90) **R. Cristobal Colon**, Cristobal Colón: 11.00–16.00, 00.00–03.00 – 91) **R. Sucre**, Guayaquil: 12.00–04.00 – 92) **R. Municipal**, Quito: 17.00–19.00, 21.00–04.00 – 93) **R. Huancavilca**, Guayaquil: 11.00–06.00 – 94) **R. Libertad**, Chone: 24 h – 95) **R. Sport**, Quito: 11.00–06.00. 96) **R. Centenario**, Guayaquil: 12.00–04.00 – 97) **R. La Prensa**, Guayaquil: 12.00–04.00 – 98) **R. Umiña**, Manta: 10.30–04.00 - 99) **R. Noticia**, Quito: 17.00–20.00, 00.00–04.00.
100) **La Voz del Perpetuo Socorro**, Apt. 63, Cuenca: 12.00–04.00. V. by letter. Recordings accepted – 101) **R. Pacifico**, Quito: 11.00–04.00 – 102) **R. Atalaya**, El Milagro: 12.00–04.00 – 103) **R. Tricolor**, Ambato: 10.45–03.00 – 104) **La Voz del Santisimo**, 6 de Marzo 1004, Guayaquil: 11.00–13.30, 23.30–02.00 – 105) **La Voz del Cacique Guale**, Jipijapa: 11.00–04.00 – 106) **R. 12 de Febrero**, Puyo: 11.00–14.00, 16.00–19.00, 22.00–03.00 – 107) **R. Cristal**, Guayaquil: 09.00–06.00 – 108) **Ondas Azules**, Santa Rosa: 14.00–17.00, 20.00–20.30, 02.00–04.30 – 109) **Ondas del Chimborazo**, Riobamba: 23.00–03.00. 110) **La Voz del Rio Guayas**, Boyaca 1319, Guayaquil: 11.00–05.00. 111) **R. Gemas**, Quito: 10.50–05.05 – 112) **Ondas Orenses**, Machala: 13.00–04.30 – 113) **R. Colón** 1072, Quito: 17.30–19.30, 01.00–04.00 – 114) **La Voz Liberal**, 8 y 9 de Oct, La Libertad, Guayaquil: 10.30–06.00 – 115) **La Voz de Imbabura**, Ibarra: 12.00–19.00, 20.00–06.00 – 116) **Union Evangelica Misionera**, Colta: 23.00–03.00 – 117) **R. Cronos**, Quito: 11.00–03.00 – 118) **R. Ifesa**, Guayaquil: 13.00–04.00 – 119) **R. Un Mundo Mejor**, Atuntaqui: 14.00–17.30, 23.00–02.30.
120) **La Voz de los Rios**, Babahoyo: 23.00–03.00 – 121) **R. Cosmopolita**, Ambato 1142, Quito: 13.00–03.00 – 122) **R. Continente**, Ibarra: 11.30–20.00, 22.00–04.00 – 123) **Ondas del Pacifico**, Colón 234, Guayaquil: 11.30–05.00 – 124) **R. El Prado**, Riobamba: 23.00–03.00 – 125) **R. Suceso**, P.O. Box 1009, Guayaquil: 11.00–05.00. **F.Pl**: 20kW – 126) **R. Oriental**, Baños: 24 h – 127) **R. Vision**, Cuenca: 11.45–04.00 – 128) **R. Cenit**, Manta: 11.00–04.00 – 129) **R. Surcos**, Guaranda: 17.00–19.00, 22.00–04.00.
130) **R. Mil Veinte**, Plaza de Santo Domingo, Quito: 11.00–05.00 – 131) **La Voz de Pueblo**, Riobamba: 23.00–03.00 – 132) **R. Rocafuerte**, Guayaquil: 12.00–04.00 – 133) **La Voz del Valle**, Garcia Moreno 534, Machachi. **L.P**: Dir. Gen: S. B. Cueva S. **D.Prgr**: 11.00–17.00, 22.00–04.00. **N**: 12.00, 02.30. V. by QSL-card or letter. **F.Pl**: 5kW. 134) **Ecos del Pueblo**, Saquisili: 12.00–19.30, 22.00–03.00 – 135) **R. El Oro**, Machala: 12.00–04.00 – 136) **R. Libertad**, Quito: 11.30–03.00 – 137) **R. Nacional Espejo**, Ambato: 11.00–05.00 – 138) **R. Noticia**, Cas. 5041, Guayaquil: 11.00–05.00 – 139) **R. Fantasia**, Quito: 11.00–04.00.
140) **R. Roxi**, Riobamba: 23.00–03.00 - 141) **R. Rey**, Latacunga: 12.00–20.00, 22.00–04.00 – 142) **R. Reloj**, Cuenca: 13.00–04.00 – 143) **R. Exito**, Quito: 11.00–05.00 – 144) **R. América**, Luque 910, Guayaquil: 11.00–05.00 – 145) **La Voz del Tomebamba**, Cas. 269, Cuenca: 11.00–04.00. V. by QSL-card – 146) **R. Juan Montalvo**, Ambato: 11.00–04.00 – 147) **R. Tricolor**, Mira: 10.30–18.00, 22.00–04.00 – 148) **R. Nuevo Mundo**, Venezuela 1070 y Olmedo, Quito: 10.30–04.00 – 149) **La Voz de Riobamba**, Riobamba: 23.00–03.00.
150) **R. Runatacuyak**, B. Quevedo: 21.00–23.00 – 151) **R. Central**, Riobamba: 23.00–03.00 – 152) **R. Central**, Maldona Villa 1, Quito: 11.00–05.00 – 153) **R. Exelsior**, Luque 1102, Guayaquil: 13.00–04.00 – 154) **R. Turismo**, Sangolqui: 11.00–18.00, 22.00–03.00 – 155) **La Voz del Tropico**, Quevedo: 12.30–04.00 – 156) **R. Ecos**, Cas. 1020, Quito: 11.00–05.00 – 157) **R. Colegio San Felipe**, Riobamba: 23.00–03.00 – 158) **Centro Radiofonica de Imbabura**, Ibarra: 11.30–03.30 – 159) **La Voz del Austro**, Cuenca: 11.00–04.00.
160) **R. Riobamba**, Riobamba: 23.00–03.00 – 161) **R. Metropolitana**, Av. Colombia 256, Quito: 11.00–04.30 – 162) **La Voz del Litoral**, Junin 206, Guayaquil: 12.00–04.00 – 163) **R. Cine**, Ambato: 23.00–03.00 – 164) **R. Universal**, Bolivia 715, Guayaquil: 24 h – 165) **R. Cotopaxi**, Pujili: 10.30–14.00, 16.00–04.00 – 166) **R. Mariscal. Sucre**, San Isidro: 11.00–19.00, 22.00–04.00 – 167) **R. Once de Noviembre**, Latacunga: 12.00–20.50, 22.00–04.00 – 168) **R. Cenit**, Av. 9 de Octubre, Guayaquil: 11.00–04.00 – 169) **R. Continental**, Cas. 368, Ambato: 11.00–04.00. V. by letter.
170) **R. Guayaquil**, Cas. 47, Babahoyo: 11.00–04.00. V. by letter – 171) **R. Victoria**, Quito: 11.00–06.00 – 172) **La Voz de Chone**, Chone: 11.15–04.30 – 173) **R. Reloj**, Guayaquil: 24 h – 174) **La Voz del Rio Quevedo**, Quevedo: 11.00–14.00, 16.00–20.00, 22.00–05.00 – 175) **La Voz del Colegio Mera**, Ambato: 13.00–03.00 – 176) **R. El Tiempo**, Guayaquil 1542, Quito: 11.00–06.00 – 177) **R. Continental**, Colón 520, Guayaquil: 12.00–19.00, 22.00–04.00 – 178) **R. Tropical**, Manta: 10.30–04.00 – 179) **La Voz de Salcedo**, Salcedo: 12.00–14.00, 17.00–19.00, 23.00–03.00
180) **R. Guayaquil**, Lavellén 222, Guayaquil: 12.00–04.00 – 181) **Ondas del Volante**, Azogues: 23.00–03.00 – 182) **R. Nueva Ortiz**, Esmeraldas



RADIO PROGRAMS AROUND THE CLOCK AND AROUND THE WORLD IN 11 LANGUAGES

English, French, German, Japanese, Norwegian, Polish, Portuguese, Quechua, Russian, Spanish, Swedish.

118 COUNTRIES HEARD FROM LAST YEAR

TELEVISION PROGRAMS DAILY IN SPANISH

HCJB "The Voice of the Andes"

HCJB-TV "The Window of the Andes"

QUITO - ECUADOR

1912, Guayaquil: 12.00-04.00 – 183) **R. Reloj**, Quito: 11.00–06.00 – 184) **R. El Triunfo**, Esmeraldas: 11.00–05.00 – 185) **R. Consular**, Tulcan: 11.30–15.00, 18.00–22.00, 01.00–03.30 – 186) **Ecos de Jambeli**, Puerto Bolivar: 11.00–04.00 – 187) **R. Puruha**, Riobamba: 23.00–03.00 – 188) **R. Otavalo**, Otavalo: 13.00–20.00, 23.00–03.00 – 189) **R. Voz de Pujili**, Pujili: 23.00–03.00.
190) **R. Cordillera**, Apt. 1003, Quito: 11.30–04.00 – 191) **La Voz del Carrizal**, Calceta: 11.30–04.00 – 192) **R. Panamericana**, Benalcazar 697, Quito: 10.30–19.00, 21.30–03.00 – 193) **La Voz del Guabo**, El Guabo: 11.00–13.00, 17.00–19.00, 23.00–05.00 – 194) **R. La Voz de los Llanganates**, Pillaro: 11.00–14.00, 17.00–20.00, 23.00–02.00.

FALKLAND ISLANDS

L.T: GMT – 4 h (April–Sept: – 3 h) – Pr.L: English.

FALKLAND ISLAND BROADCASTING SERVICE (Gov.)
FI: By license payments and Gov. grant – **ADDR:** Broadcasting Studios, Stanley. **Cable:** Broadcasts. **Te:** 90 – **L.P:** Dir: Ch. T. Reive.
STATIONS: 585kc 513m 5kW – 3958kc 75.79m 0.5kW.
HOME SCE: W22.45(Sat 21.30)–01.00(Sat 02.00). Sun 21.45–01.30 – **N: BBC:** W 11.00 (Oct–March), 13.00 (April–Sept), 23.00 (Oct–March), 00.00 (April–Sept). **Local N:** Fri 23.35 – **ANN:** "This is the Falkland Islands Broadc. Station" – **V.** by letter. Reports from So. America only.

The Marconi Company Ltd. G.B, delivered 5kW mw-tr.

GUIANA (British)

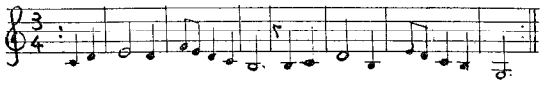
L.T: GMT – 3¾ h – Pr.L: English.

BRITISH GUIANA BROADCASTING CO. LTD. (Comm.)
FI: By adv – **ADDR:** Broadc. House. Phillip's Green, High St. Georgetown. **Te:** 2691. **Cable:** Broadcast – **L.P:** Gen. Mgr: E. A. D. Saul. A.M.I.E.R.E. Eng-in-charge: W. Rogers. Sales Mgr: U. A. Gouveia. Dir. Prgr: R. A. Khan.
STATIONS: ZFY (R. Demerara) and B.G.B.S. (560kc)
560kc 536m 10kW – 3265kc 91.87m 2kW
760kc 395m 10kW – 5980kc 50.17m 2kW
B.G.B.S: 560kc: W 09.45–01.50, Sun 10.45–01.50.
N: W 09.46, 10.45, 11.00*, 13.45, 14.45, 15.45, 18.00*, 18.45, 20.45, 21.45, 22.45, 23.00*, 23.45, 00.45, 01.45. Sun: 10.46, 11.00*, 13.45, 15.45, 22.45, 23.00*, 23.45, 01.45.
ZFY: 760kc: 09.15(Sun 09.45)–02.45(Sat 03.45); 3265kc: 19.45–02.45(Sat 03.45); 5980kc: 09.15(Sun 09.45)–19.45.
N: W 09.48, 10.15, 11.15, 13.00*, 15.10, 16.00*, 20.00*, 20.10, 21.10, 22.00, 23.10, 00.45, 02.43. Sun: 11.10, 16.00*, 16.10, 20.00*, 23.10, 00.45, 02.43. *=BBC.
ANN: On 560kc: "This is B.G.B.S. the British Guiana Broadc. Sce". On 760/3265/5980kc: "This is R. Demerara, British Guiana".
V. by QSL-card. Recordings accepted.

GUIANA (French)

L.T: GMT – 4 h – Pr.L: French.

OFFICE DE RADIODIF. TELEVISION FRANCAISE (ORTF)
ADDR: Av. Mme Payée prolongée, Cayenne. **Te:** 355 – **L.P:** Dir. Gen: F. Jaquemart. St. Mgr: G. Guimon. Mgr: M. Garin. Dir. Tec: M. Edel.
STATION (System TRT): 3385kc 88.63m 4kW – 4892kc 61.32m 1kW – 6170kc 48.62m 4kW.
HOME SCE: 10.15–11.30, 16.15–18.30, 22.00–02.00(Sat 03.00). **N:** 10.30, 22.45, 01.00 – **ANN:** "Ici Cayenne, R. diff. Télévision Française"
INT-SIG: Guitar.



V. by letter. Rp. Reports to P.O. Box 336, Cayenne. Recordings accepted.

PARAGUAY

L.T: GMT – 4 h – Pr. L: Spanish.

ADMINISTRACION NACIONAL DE TELECOMUNICACIONES
ADDR: Administración General, Cas. Correo 84, Asunción. **Cable:** Antelco. **Te:** 4001 – **L.P:** Dir: B. Guanes S.
STATIONS: All st's comm. exc. R. Nacional.
Short Waves: Call: ZP---.

	Call	kc	m	kW	N. and h of tr.
1)	A6	5980	50.17	3	R. Guairá, Villarrica: 12.00–18.00, 21.00–03.00
2)	A10	6015	49.88	1	R. Paraguay, Asunción: 10.00–19.00, 20.00–02.00
3)	A1	6025	49.79	3	R. Nacional, Asunción: 11.00–17.00, 20.00–02.00
4)	A11	6110	49.10	1	R. Charitas, Asunción: 15.00–01.00
5)	A3	11850	25.32	3	R. Teleco, Asunción: 14.00–23.00
6)	A5	11945	25.12	5	R. Encarnación: 11.00–14.00, 16.00–24.00
7)	A7	15210	19.72	3	R. Guarani, Asunción: 12.00–16.00, 19.00–03.00

Medium Waves: Call: ZP--. °=Short Wave. *=also FM.

	Call	kc	kW		Call	kc	kW		Call	kc	kW
8)	15	560	0.25	3)	1	°920	10	13)	19	1330	1
9)	16	640	1	11)	9	970	5	1)	6	°1360	1.5
10)	12	700	10	12)	14	1020	5	5)	3	°1430	1
7)	7	°730	1.5	4)	11	°1200	1.5	14)	8	1480	1
6)	5	°760	20	2)	10	°1300	1.5				

Short Waves:
1) Alejo Garcia y Pte. Franco, Villarrica. **Te:** 85. **Ann:** "ZP6 y ZPA6, R. Guairá, Voz de Progreso y Cultura" – **V.** by QSL-card or letter.
2) Av. Dr. Gaspar R. de Francia 343, Asunción. **V.** by QSL-card. Rp.
3) Victor Haedo 224, Asunción. **L.P:** Dir. Gen: A. Cáceres Almada. Dir. Tec: P. Pereira. **D.Prgr: N:** 16.30, 23.30, 02.30. **Ann:** "ZP1 y ZPA1, R. Nacional del Paraguay". **V.** by letter.
4) L. A. de Herrera 364, Asunción.
5) Av. Gral. Artigas y Bañado, Asunción. **Ann:** "ZP3 y ZPA3, R. Teleco, Asunción, República del Paraguay". **V.** by letter.
6) Encarnación.
7) Independencia Nac. 703. Asunción. **Te:** 6393. **V.** by letter.

Medium Waves:
8) **La Voz de Amambay**, Pedro Juan Caballero.
9) **R. Pte. Strossner**, Puerto Pte. Strossner.
10) **R. Carlos Antonio Lopóz**, Alberdi 200, Pilar. **Te:** 54. **L.P:** Dir. Gen: M. A. Rodriguez. Dir. Tec: M. A. Stete. **D.Prgr:** 10.00–02.00 in Spanish & Guarani. **N:** 10.00, 12.00, 12.55, 18.00, 21.00, 22.00, 22.55 – **Ann:** "La Onda de la Cordalidad". **F.Pl:** 1kW sw-tr.
11) **R. Comuneros**, Estados Unidas y 9° Pdas, Asunción.
12) **R. Nanduti**, Antiguera e L. A. de Herrera y Azara, Asunción.
13) **R. Nuevo Mundo**, Cnel. Oviedo, Nuevo Mundo.
14) **R. Concepcion**, Concepción.

PERU

L.T: GMT – 5 h – Pr.L: Spanish.

JUNTA PERMANENTE NACIONAL DE TELECOMUNICACIONES
ADDR: Av. Arequipa 734, Lima. **Te:** 35-965.

ASOCIACION NACIONAL DE RADIOEMISORAS DEL PERU
Av. Tacna 543, Lima.
STATIONS: All st's comm. exc. 63), 65), 72), 74), 75), 93), 146) (Gov) 18), 33a), 41), 68), 88), 110), 136), 159), 160) (Cult).
Short Waves: *=inactive.

	Call	kc	m	kW	Name	h of tr.
1)	OBZ4C	3215	93.30	0.3	R. Mundo, Huancayo	
2)	OBX7D	3230	93.00	0.5	R. El Sol de los Andes, Juliaca:	11.30–06.00
3)	OBX4U	3240	92.59	1	R. América, Lima:	13.00–06.00
4)	OAZ4G	3250	92.31	0.4	R. La Oroya, La Oroya	
5)	OBX1E	3280	91.40	1	R. Chulucanas, Chulucanas	
6)	OBZ4E	3290	91.90	0.5	R. Cultura, Callao:	22.30–03.15
7)	OBX4Y	3300	90.85	0.5	R. Junin, Huancayo	
8)	OBZ4I	3320	90.34	1	R. Prelatura Nullius de Yauyos	
9)	OAX3P	3325	90.23	0.5	R. Tingo Maria, Tingo Maria	
10)	OAX1M	3330	90.09	1	R. Progreso, Piura:	12.00–05.00
11)	OAX5J	3350	89.55	1	R. Independencia, Ica	
12)	OAX3Q	3355	89.42	1	R. Ondas de Huallaga, Huánuco	
13)	OAX3D	3360	89.29	0.5	R. Huánuco, Huánuco	
14)	OAX1O	3380	88.76	1	R. Chiclayo, Chiclayo	12.00–05.00
15)	OBZ4M	3387	88.65	1	R. La Voz del Valle del Mantaro, Chauca	
16)	OAX6O	3710	80.86		R. Mollendo, Mollendo	
17)	OAX3G	3890	77.12	0.5	R. Chimbote, Chimbote:	12.00–06.00
18)	OAX7O	3960	75.76	0.5	R. Madre de Dios, Puerto Maldonado:	23.00–06.00
19)	OCX4W	4762	63.00	0.25	R. Inca, Lima:	11.00–06.00
20)	OAX2G	4770	62.89	0.5	R. Cajamarca, Cajamarca	
21)	OAX3V	4785	62.70	1	R. Horizonte, Huanuco	
22)	OAX5X	4790	62.63	0.4	R. Nazca, Nazca:	12.00–06.00
23)	OBX7C	4800	62.50	0.5	R. Onda Azul, Puno:	10.45–04.15
24)	OAX3E	4808	62.40	0.5	R. Huaraz, Huaraz	
25)	OBX1C	*4815	62.31	1	R. La Voz de la Frontera, Tumbes	
26)	OAX8X	4815	62.31	1	R. Amazonas, Iquitos:	11.00–05.00
27)	OAX5U	4815	62.31	1	R. La Voz, Huamanga	

	Call	kc	m	kW	Name	h of tr.
28)	OAX7K	4820	62.24	0.5	R. Puno, Puno:	01.00–04.00
29)	OAX8R	4825	62.18	0.3	R. San José, Iquitos	
30)	OAZ4J	4835	62.05	0.5	T. Sudamericana, Lima	
31)	OAX8F	4840	61.98	1	R. Atlántida, Iquitos	
32)	OAX1X	4845	61.92	1	La Voz de Chira, Sullana	
33)	OAX8I	*4855	61.79	0.5	R. La Hora, Iquitos	
34)	OCX4B	4860	61.73	0.5	Nueva R. Callao:	12.00–05.00
33a)	OCX4T	4870	61.60	0.5	R.Cultural,Huancayo:	23.30–01.30
35)	OAZ4L	4875	61.54	5	R. del Pacifico, Lima:	12.00–03.00
36)	OCX4E	4880	61.48	1	R. Once Sesenta, Lima:	12.00–05.00
37)	OAX5V	4885	61.45	1	R. Villa Rica, Huancavelica	
38)	OAZ4T	4895	61.29	0.4	R. Chanchamayo, La Merced	
39)	OAX2H	4910	61.10	0.5	R. La Hora, Trujillo:	12.00–06.00
40)	OBX7H	4920	60.89	1	R. Ondas del Titicaca, Puno	
41)	OOX5Q	4934	60.80	0.25	R. Cultural, Abancay	
42)	OAX9E	4935	60.80	1	R. Tropical, Tarapoto	
43)	OAX6N	4940	60.73	0.5	R. Misti, Arequipa:	12.00–04.30
44)	OAZ4R	4940	60.73	0.5	R. San Juan, Tarma:	12.00–04.30
45)	OAZ4I	*4945	60.67	0.4	R. Huacho, Huacho	
18)	OBX7I	4950	60.60	0.5	R. Madre de Dios, Puerto Maldonado	
46)	OAX1S	4960	60.48	0.5	R. Lambayeque, Chiclayo:	11.15–05.00
47)	OBX4Z	4980	60.25	1	R. Agricultura, Lima	
48)	OAZ4C	4995	60.06	1	R. Andina, Huancayo:	11.00–05.00
49)	OAX2S	5005	59.94	1	R. Jaén, Jaén	
50)	OAX5O	*5010	59.88	1	R. Pisco, Pisco	
51)	OAX7Z	5015	59.82	0.5	R. Juliaca, Juliaca:	12.00–14.00 17.00–19.00, 22.00–04.00
52)	OAX7Q	5025	59.70	0.3	R. Quillabamba, Quillabamba	
53)	OAX6U	5035	59.58	1.25	R. Ilo, Ilo:	12.00–05.00
54)	OBZ4P	5040	59.52	1	R. Reloj, Lima	
18)	OBX7J	5042	59.50	0.5	R. Madre de Dios, P. Maldonado	
55)	OAX1J	5050	59.41	1	R. Tumbes, Tumbes	
56)	OAZ4A	5058	59.31	1	R. Tarma, Tarma	
57)	OAX5X	5440	55.15	1	R. Huancavelica, Huancavelica	
58)	OBX7F	5714	52.50	0.5	R. Ayaviri, Ayaviri	
59)	OAX7L	5808	51.64	1	La Voz del Altiplano, Puno	
60)	OAX4P	5908	50.78	0.5	R. Huancayo, Huancayo:	11.30–04.30
126)	OBX1J	5965	50.29	2	R. Heroica, Chiclayo	12.00–07.00
61)	OBX4Q	5970	50.25	10	R. El Sol, Lima:	11.00–05.00
62)	OBX4M	5980	50.17	5	R. Panamericana, Lima:	12.00–06.00
63)	OAX7E	6000	50.00	1	R. Nacional, Puno:	12.00–05.00
64)	OAX4Q	6013	49.90	3	R. Victoria, Lima:	11.00–06.00
65)	OAX8B	6028	49.77	1	R. Nacional, Iquitos:	12.00–05.00
66)	OAX6B	6035	49.71	0.5	R. Landa, Arequipa:	12.00–05.00
67)	OAX6A	6042	49.65	0.3	R. Arequipa, Arequipa:	12.00–04.30
68)	OBZ4O	6050	49.59	2.5	R. Union, Lima	
68a)	OAX6E	6055	49.55	1	R. Continental, Arequipa:	11.00–05.00
69)	OAX2A	6057	49.53	2	R. Trujillo, Trujillo:	12.15–05.30
70)	OAX8L	6062	49.48	1	R. Telestar, Pucallpa:	12.00–14.00 16.00–19.00, 23.00–03.00
71)	OAX4S	6070	49.42	0.3	R. Onda Popular, Lima:	24 h
72)	OAX4Z	6082	49.32	10	R. Nacional, Lima:	12.00–05.00
73)	OAX7T	6088	49.28	0.35	R. Sicuani, Sicuani	
74)	OAX6F	6105	49.14	1	R. Nacional, Tacna:	12.00–05.00
75)	OAX4H	6115	49.06	1	R. Mundial, Lima:	12.00–05.00
76)	OBX4Z	6115	49.06	1	R. Luz, Lima:	12.00–05.00
77)	OCX4A	*6123	49.01	1	R. La Crónica, Lima	
78)	OCX4M	6135	48.90	0.5	R. Pasco, Cerro de Pasco	
79)	OAX1A	6140	48.86	0.3	R. Delcar, Chiclayo:	00.00–05.30
80)	OAZ4E	6145	48.82	0.5	R. Mineria, La Oroya	
81)	OBX4G	6150	48.78	2	R. Excelsior, Lima:	12.00–05.00
1)	OCX4G	6160	48.70	1	R. Mundo, Huancayo:	11.00–05.00
82)	OBX4B	6170	48.62	0.3	R. Corporación, Cerro de Pasco:	10.00–05.00
83)	OBX4P	6180	48.54	1	R. Miraflores, Lima:	13.00–05.00
84)	OAX4G	6190	48.47	0.4	R. Lima, Lima:	12.00–07.00
85)	OAX1B	6198	48.40	0.25	R. Piura, Piura:	12.00–05.00
86)	OAX7C	6215	48.27	0.3	R. Tahuantisuyo, Cuzco	
87)	OAX7A	6220	48.23	1	R. Cuzco, Cuzco:	23.00–05.00
88)	OAX6U	6235	48.10	1	R. Universidad, Arequipa:	12.00–03.30
90)	OAX8E	9504	31.56	1	R. Loreto, Iquitos:	11.00–05.00
91)	OAX6H	9505	31.56	0.25	R. Tacna, Tacna:	10.30–05.20
74)	OAX6L	9530	31.48	1	R. Nacional, Tacna:	12.00–05.00
92)	OAX4K	9545	31.43	0.5	R. Central, Lima	12.00–06.00
93)	OAX1Z	9550	31.41	2.5	R. Nacional, Tumbes:	12.00–05.00
72)	OAX4R	9562	31.37	40	R. Nacional, Lima:	12.00–05.00
63)	OAX7F	9570	31.35	1	R. Nacional, Puno:	12.00–05.00
94)	OAX8Q	9577	31.33	0.4	R. Pucallpa, Pucallpa: W 11.00–14.00, Sun 12.00–03.00	
95)	OBX4K	9585	31.30	0.75	R. Selecta, Lima:	13.00–04.30
96)	OAX5C	9590	31.28	1	R. Ica, Ica:	11.00–04.00
97)		9600	31.25		R. Ayacucho, Ayacucho	
98)	OAX1R	*9600	31.25	0.45	R. Talara, Talara	
65)	OAX8C	9610	31.22	1	R. Nacional, Iquitos:	12.00–05.00
2)	OBX7E	9618	31.19	0.5	R. El Sol de los Andes Juliaca:	11.30–06.00
31)	OAX8K	9625	31.17	1	R. Atlántida, Iquitos:	11.00–05.00
99)	OCX4K	9635	31.14	1	R. Expreso, Lima:	12.00–05.00
100)	OAX1T	9645	31.10	1	R. Grau, Piura	
101)	OAX8U	9665	31.04	1	R. El Eco, Iquitos	
35)	OAZ4L	9675	31.01	5	R. Del Pacifico, Lima:	12.00–03.00
103)	OCX4Y	9695	30.94	1	R. Continente, Lima:	11.30–06.00
42)	OAX9D	9710	30.90	1	R. Tropical, Tarapoto:	11.30–04.45
104)	OAX7J	*9730	30.83	0.5	R. La Hora, Cuzco	
105)	OAX8W	9750	30.77	2.1	R. Sideral, Pucallpa	
26)	OAX8O	9770	30.71	1	R. Amazonas, Iquitos	
106)	OBX7O	*11820	25.38	1	R. Imperial Cuzco	
72)	OBX4R	*11914	25.19	10	R. Nacional, Lima	
72)	OAX4T	15150	19.80	40	R. Nacional, Lima: irr.	
61)	OBX4C	*15180	19.76	0.5	R. El Sol, Lima:	
72)	OBX4T	*21600	13.89	10	R. Nacional, Lima	

Medium Waves °=also on Short Wave.

	Call	kc	kW		Call	kc	kW
107)	OBZ4L	560	1	131)	OAZ4W	1100	1
76)	OBX4L	°590	10	9)	OAX3I	°1100	0.5
108)	OAX6S	600	0.5	95)	OAX4N	°1130	3
109)	OAX2M	620	0.4	28)	OAX7H	°1130	1
110)	OAX7W	620	1	98)	OAX1Q	°1130	1
27)	OAX5T	°620	1	38)	OAZ4S	°1130	
50)	OAX5P	°620	1	132)	OAX3R	1140	1.2
35)	OAZ4K	°640	10	133)	OAX5W	1140	0.5
23)	OBX7B	°640	1	36)	OAX4C	°1160	5
111)	OAX5Y	650	1	63)	OAX7D	°1160	1
112)	OAX2N	650	1	93)	OAX1K	°1160	2.5
113)	OBX4A	670		24)	OAX3B	°1160	0.5
6)	OAX4L	°670	1.5	74)	OAX6D	°1165	0.35
113a)	OCX4S	680	0.15	134)	OAX3O	1180	1
4)	OAZ4F	°690	0.4	135)	OBZ4A	1180	0.5
68a)	OAX6C	°690	2	84)	OAX4B	°1200	1
17)	OAX3F	°690	0.5	86)	OAX7B	°1200	0.3
114)	OBZ4H	700	1	136)	OAX8M	1200	0.5
115)	OBZ4Q	710	0.15	137)	OAX5G	1220	
11)	OAX5E	°730	0.5	72)	OCX4Z	°1225	3
85)	OAX1Y	°750	0.3	18)	OBX7J	°1230	
116)	OAX3T	750	1	88)	OAX6I	°1237	
30)	OBX4S	°750	1	100)	OAX1H	°1240	2
117)	OAX5Z	760		94)	OAX8P	°1250	0.4
64)	OAX4X	°780	10	83)	OAX4L	°1250	5
118)	OAX2I	790	1	96)	OAX5B	°1270	1
119)	OAZ4U	800		40)	OBX7G	°1270	1
120)	OAX2J	820	1	101)	OAX8T	°1270	1
121)	OAX4O	820	1	45)	OAZ4H	°1270	1
122)	OBX7M	830	0.5	137a)	OBZ4K	1280	5
123)	OBX1I	830	1	46)	OAX1I	°1300	1
124)	OAX3S	830	1	48)	OAZ4B	°1300	1
72)	OAX4A	°854	20	138)	OAX4M	1300	1
125)	OBX1F	870		139)	OAX6P	1300	0.4
68)	OBZ4N	°880	10	51)	OAX7X	°1300	0.3
10)	OAX1D	°890	4	77)	OAX4I	°1320	10
61)	OBX4X	°900	10	140)	OAX6K	1320	0.3
126)	OBX1G	°920	2	98)	OAX1F	°1320	1
127)	OBZ4J	920	1	42)	OAX9C	°1340	1
128)	OAX2T	920	0.4	43)	OAX6L	°1340	
92)	OAX4E	°930	5	141)	OAX5D	1340	0.3
62)	OAX4D	°960	10	142)	OAZ4M	1340	0.2
39)	OAX2F	°980	1	97)	OAX5H	°1340	0.5
99)	OBX4J	°985	5	143)	OAZ4Q	1340	0.5
3)	OAX4U	°1010	10	14)	OAX1E	°1340	1
59)	OAX7N	°1030	1	12)	OAX3N	°1350	1.5
65)	OAX8A	°1030	1	81)	OAX4Y	°1360	3
71)	OBX4O	°1040	1	73)	OAX7R	°1365	0.35
21)	OAX3U	°1060	1	144)	OAX3H	1370	1
69)	OAX2B	°1070		145)	OAZ4Q	1370	0.4
75)	OAX4F	°1080	3	146)	OAX8G	1370	0.5
5)	OBX1D	°1080	1	147)	OAX4I	1370	0.5
129)	OAX7S	1080	1	57)	OAX5F	°1370	0.5
26)	OAX8N	°1080	1	7)	OBX4V	°1370	1
130)		1090	1	20)	OAX2D	°1370	0.5
56)	OAX2B	°1095	2	55)	OAX1G	°1370	1

	Call	kc	kW		Call	kc	kW
44)	OAZ4P	°1400	0.5	22)	OAX5N	°1490	0.5
34)	OBX4W	°1400	2.5	154)	OCX4V	1510	0.3
148)	OAX2O	1400	1	56)	OCX4J	°1510	0.1
66)	OAX6J	°1400	1	155)	OAX2L	1510	1
104)	OAX7I	°1400	1.5	90)	OAX8D	°1520	1
149)	OBX1H	1420	0.5	54)	OBX4D	°1520	1
150)	OAZ4V	1430	0.5	106)	OAX7P	°1520	0.35
103)	OCX4X	°1440	1	80)	OAZ4D	°1520	0.5
151)	OAX6R	1440	1	79)	OAX1C	°1520	1
32)	OAX1V	°1460	1	156)	OBZ4S	1530	1
13)	OAX3C	°1460	1	82)	OBX4N	°1540	0.35
2)	OAX7W	°1460	1	157)	OAZ4N	1540	0.15
152)	OAX5K	1460	1	158)	OAX6Q	1540	0.5
19)	OBX4E	°1470	1	25)	OBX1B	°1540	
60)	OCX4D	°1470	1	1)	OCX4F	°1560	1
87)	OAX7G	°1470	1	159)	OAX7U	1560	0.35
33)	OAX8H	°1470	1	160)	OAX7V	1570	
153)	OBX4I	1490		37)	OAX5M	°1580	0.15
78)	OCX4P	°1490	0.3	47)	OAZ4Z	°1590	5
31)	OAX8J	°1490	1	33)	–	°1590	
41)	OAX5L	°1490	0.25				

Short Waves:

1) Ca. 426, Huancayo. **L.P:** Dir: M. Huanay G. **V.** by letter.
2) Casilla 11, Juliaca. **Te:** 81. **L.P:** Dir. Gen: S. Davila U. Dir. Tec: E. Esquiviar. **D.Prgr: N:** 11.30, 00.00. **V.** by QSL-card. Recordings accepted. **F.PL:** 5kW(mw).
3) Esquina Montero Rosas y Marriano Carranza, Lima. **L.P:** St. Mgr: N. Gonzales. **Ann:** "La Voz del Nuevo Mundo, desde Lima".
4) Ca. Tarma 195, La Oroya. **Ann:** "OAZ4F, 1470kc onda larga y OAZ4G en 3250kc onda tropical, banda de 92mts, R. La Oroya de la Oroya, afiliada a la Asociación de R. Victoria, Lima, Peru" – 5) Chulucanas.
6) Garcia y Garcia 202, La Punta, Callao. **L.P:** Dir. Gen: R. Nieto St. Mgr: M. Nieto. Dir. Tec: S. Raspa. **D.Prgr:** 13.00–03.15(mw). **N:** 13.00. **Ann:** "OAZ4L en 670kc y OBZ4E en 3290kc onda corta tropical transmite R. Cultura desde La Punta, Callao, Peru. Mayor potencia, calidad transmite R. Cultura desde La Punta, Callao".
7) Callao 120, Huancayo. **L.P:** Mgr: R. Tasa Z. **V.** by QSL-card.
8) Nuevo Imperial, Cañete – 9) Jirón Independencia 218, Tingo Maria.
10) Ica 419, Piura. **Ann:** "R. Progreso de Piura transmite para todo el Perú" – 11) Cajamarca 194, Ica – 12) Huánuco y Abtao, Huánuco. **L.P:** Dir: F. Llanos M – 13) Huánaco.
14) Balta 618, Chiclayo. **Ann:** "La Emisora Más Popular del Norte" or "R. Chiclayo transmitiendo para todo el Perú" – 15) Junin 834, Chaucha. **V.** by letter – 16) Mollendo.
17) Bolognesi 513, Chimbote. **Ann:** "La Emisora de los Mejores programas" or "Transmite OAX3F R. Chimbote en 690kc de frecuencia desde el Departamento de Ancash, Perú. Emisora afiliada a R. Victoria de Lima".
18) Puerto Maldonado, Madre de Dios. **L.P:** Dir: Joaquin B. Dir. Tec: T. Guerrero. **Ann:** "Emisora Madre de Dios en Maldonado, Emisora Cultural al servicio de la Iglesia Católica."
19) Av. Wilson 1191, Lima – 20) Plaza de Armas, Cajamarca.
21) Av. Raymondi, Lote 6, Tingo Maria. **L.P:** T. Maldonado B.
22) Apt. 54, Nazca. **Te:** 2199. **L.P:** Dir: A. Cordoba B. St. Mgr: E. Cajo E. **Ann:** "OAX5N y OAX5X R. Nazca su compañera musical transmite en sus frecuencias de 1490kc y 4790 ondas media y corta respectivamente de sus estudios en urbanizacion pencal, Nazca Peru". **V.** by letter. Rp. Recordings accepted.
23) Cas. 210, Puno. **L.P:** Dir. Gen: R. Kearns. Dir. Tec: J. Amiel R. **Ann:** "R. Onda Azul, Escuelas Radiofonicas del Peru, Puno, en trabajo simultáneo con sus dos transmisores: 4800kc onda corta, 640kc onda larga". **V.** by QSL-card or letter. Recordings accepted.
24) Jirón Cuzco 107, Huaraz – 25) Alfonso Ugarte 12. Tumbes.
26) Jirón Lima 960, Iquitos. **Te:** 2740. **L.P:** Dir. Gen: M. Iglesias N. St. Mgr: M. Meléndez C. **D.Prgr:** N: 12.00, 03.00. **V.** by letter. Recordings accepted – 27) Pasaje Macate 151, Huamanga.
28) Arequipa 100, Puno. **L.P:** Dir. Gen: J. Zea Gonzalez. Dir. Tec: R. Laso V. **Ann:** "La Emisora de los Mejores Programas" or "La Voz del Departamento más poblado del Peru". **V.** by QSL-card.
29) Vicariato Apostólico San José del Amazonas, Iquitos – 30) José Diaz 190, Lima.
31) Apt. 277, Iquitos. **L.P:** Dir: J. Reátegui B. Dir. Tec: M. Panduro. **Ann:** "Una Voz loretana para el Perú y el mundo" or "La Emisora de los mejores programas". **V.** by QSL-card – 32) Sucre 556, Sullana.
33) San Martin 126, Iquitos. **Ann:** "La Voz de la Juventud Loretana en el Cielo Amazónico".
33a) Cas. 245, Huancayo. **L.P:** Dir. Gen: M. Jacinto. Dir. Tec: J. Moran M. Dir. Foreign Rel: E. Hurfado. **Ann:** "R. Cultural "La Merced" en su frecuencia de 4870kc banda de 60 metros desde Umutu, Huancayo, Perú". **V.** by letter. Recordings accepted. **F.Pl:** mw, 5kW sw.
34) Colón 260, Callao. **Te:** 91000. **L.P:** Dir. Gen: A. Salazar P. Dir. Tec: C. Freunt. **Ann:** "OBX4W 1400kc y OCX4B 4850kc, transmite Nueva R. Callao" or "La Voz del Primer Puerto del Peru". **V.** by letter. Recordings accepted. **F.Pl:** 10kW.
35) Apt. 4236, Lima. **Te:** 7-6911. **Cable:** Team, Lima. **L.P:** Dir. Gen: N. F. Mydske. Mgr: E. Paredes. Dir. Tec: J. Newing. **D.Prgr: N:** 12.10, 12.30, 13.00, 14.00, 15.00, 16.00, 17.00, 18.00, 21.00, 22.00, 23.00, 00.00, 01.00, 02.00, 02.50. **Ann:** "Transmiten R. del Pacifico y R. del Pacifico-FM en forma simultanea desde Lima Peru". **V.** by letter. Prgr. schedule free.
36) Av. Alfonso Ugarte 980, Lima. **L.P:** Dir. Tec: J. Seminario. **Ann:** "R. Once Sesenta, la primera emisora dedicada a la mujer".
37) Virrey Toledo 468, Huancavelica.
38) Apt. 96, La Merced. **Te:** 68. **L.P:** Dir: A. Espejo P. **Ann:** "R. Chanchamayo OAZ4S 1130kc y OAZ4T 4895kc, onda corta, banda de 60 metros transmite R. Chanchamayo desde La Merced, Capital Cafelera del Peru, emisora afiliada a la Cadena Nacional de R. Victoria". **V.** by letter or QSL-card. Recordings accepted. Prgr. schedule free – 39) Zepita 439, Trujillo. **Ann:** "R. La Hora, la emisora de los exitos" – 40) Ca. Arequipa 323, Puno – 41) Abancay.
42) Jirón Bolognesi, Tarapoto. **L.P:** Mgr: J. Pablo M. Dir: C. Augusto S. **Ann:** "La Emisora más potente del Oriente Peruano". **V.** by letter.
43) Apt. 657, Arequipa. **L.P:** Mgr: R. Zuñiga G – 44) Jirón Huánuco 488, Tarma – 45) Av. Echenique 140, Huacho – 46) Balta 413, Chiclayo
47) Paseo Colón 417, Lima. **L.P:** Comm. Mgr: B. Dextre. Dir: M. Fernández M. **Ann:** "La Voz del Agro Nacional".
48) Ca. Real 319, Chilca, Huancayo. **Ann:** "Del centro urbano más importante transmite R. Andina". **V.** by letter – 49) Ca. Comercio 301, Jaén. **L.P:** Dir: A. Vilchez R – 50) Av. Huayna Capac 1345, Pisco. **L.P:** Dir: A. Pereyra B.
51) Ca. 9 de Diciembre 199, Juliaca. **L.P:** Dir. Gen: J. Zea Gonzalez. Dir. Tec: V. Urviola. **Ann:** "Desde el corazón de los Andes". **V.** by letter.
52) Espinar 354, Quillabamba. **L.P:** Dir: C. Lizárraga.
53) Cas. Ilo. **Te:** 196. **L.P:** Dir. Gen: L. Sardón U. St. Mgr: A. Sardón U. Dir. Tec: R. Quiroga G. **D.Prgr: N:** 17.30, 01.00. **Ann:** "En transmissión OAX6U 5035kc banda tropical de onda corta R. Ilo la freq. de oro llevando hasta vuestros hogares en mensaje de peruanidad desde la costa Sur del Peru". **V.** by letter. Recorded re. in E or Sp accepted.
54) Ocoña 484, Lima – 55) Plaza de Armas, Tumbes. **Ann:** "La Voz de la Juventud" – 56) Cas" 167, Tarma – 57) Chachapoyas 104, Huancavelica – 58) J. Chavez 314, Ayaviri.
59) Apt. 130, Puno. **L.P:** Dir. Gen: H. Carjabal D. St. Mgr: H. de Carjabal. Dir. Tec: L. Reyes B. **D.Prgr:** 1030kc: 11.00–05.00 in Spanish; 5808kc: 12.00–04.00 (Quechua 11.00–11.30, Aymara 11.30–12.00, Spanish 12.00–03.00, English 03.00–04.00). **N. in Spanish:** 12.00, 18.00, 02.00. **Ann:** Sp: "Desde Puno Capital Folklórica del Peru, R. La Voz del Altiplano". E: "From Puno City, The Folklore Capital of Peru, R. La Voz del Altiplano". **Int-Sig:** First movement from "Himno al Sol" composed by R. Huirse. **V.** by QSL-card or letter.
60) Cas. 187, Huancayo. **L.P:** Dir: A. Elejalde G. **Ann:** "La Voz del Centro del Perú" or "OCX4D y OAX4P, R. Huancayo La Voz del Centro del Perú" – 61) José Galvez 1040, Lima.
62) Av. Arequipa 1110, Lima. **L.P:** Dir: H. Delgado P. Dir. Tec: M. Flores. **Ann:** ?Sabe quién transmite?, R. Panamericana" or "Panamericana ciudad de Lima". **V.** by letter – 63) Puno.
64) Paseo de la República, Lima. **L.P:** Mgr: J. Cavero. Dir. Tec: E. Lastarria. **Int-Sig:** First Movement of Beethoven's 5th Symphony. **V.** by letter – 65) Iquitos. **V.** by letter.
66) Sucre 409, Arequipa. **L.P:** Dir: M. J. Landa. **V.** by QSL-card.
67) Apt. 657, Arequipa. **L.P:** Mgr: R. Zuñiga G. **Ann:** "La Voz del Misti" – 68) Jr. Carabaya, Lima.
68a) Rivero 101, Arequipa. **L.P:** Mgr: J. A. Umbert. **Ann:** "OAX6C, OAX6D y OAX6E Emisoras de R. Continental de Arequipa".
69) Almagro 349, Trujillo. **L.P:** Dir: J. Castro. **Ann:** La Voz del Norte del Peru". **V.** by letter.
70) Raymondi 185, Pucallpa. **L.P:** Dir: A. Chaque. **Ann:** "R. Telesar, La Voz del Progreso y Cultura". **V.** by letter.
71) Colmena 624, Lima. **L.P:** Dir. Gen: P. Tello. Dir. Tec: G. Rojas. **Ann:** R. Onda PO-PU-LAR". **V.** by letter. Recordings accepted.
72) Petit Thouras 441, Lima. **L.P:** Dir. Gen: G. Lazarte E. Dir. Tec: R. Raggio & R. Pflucker. **Ann:** "R. Nacional del Perú, la primera emisoras del país". **V.** by QSL-card.
73) Plaza de Armas 106, Sicuani – 74) Cas. 113, Tacna. **V.** by letter.
75) Union 733, Lima. **L.P:** Dir: M. Luna. Dir. Tec: D. Capella.
76) Tacna 543, Lima. **L.P:** Dir: W. R. Quintas. **Ann:** "R. Luz, la primera emisora del dial". **V.** by QSL-card.
77) Tacna 665, Lima. **L.P:** Dir. Gen: J. Silva. Dir. Tec: W. Liensen.
78) Apt. 128, Cerro de Pasco. **L.P:** Dir: L. Rosazzo. **Ann:** "Radiodifusora Cerro de Pasco S.A, Afiliada a la Federación Peruana de R.dif. y Cadena Nacional de Emisoras".
79) Av. Balta 658, Chiclayo. **L.P:** Dir: J. C. Montjoy. **Ann:** "La Voz del Norte para todo el Perú" or "La Emisora que está más tiempo en su dial". **V.** by letter.
80) Dario León 313–538, La Oroya. **Ann:** "Desde el Corazón de los Andes".

81) Camaná 975, Lima. **L.P:** Dir: A. Belmont. Dir. Tec: J. Farfán. **Ann:** "Transmite R. Excelsior la emisora más criolla del Peru".

82) Apt. 19, Cerro de Pasco. **Ann:** "La Voz de Cerro de Pasco".

83) Larco 760, Miraflores, Lima – 84) Nicolás de Piérola 533, Lima. **L.P:** Dir: O. Dianderas – 85) Tacna 871, Piura. **Ann:** "La Decana del Departamento". V. by letter.

86) Av. Sol 930, Cuzco. **L.P:** Dir: R. Montesinos E. **Ann:** "La Emisora de los grandes éxitos".

87) Montero 114, Cuzco. **L.P:** Dir: C. Lizarraga. **Ann:** "La Voz de la Capital Arqueológica de America".

88) Cas. 23, Arequipa. **L.P:** Dir: J. Cornejo E. Dir. Tec: H. Delgado C. **Ann:** "OAX6I R. Universidad, Emisora Oficial del Instituto Cultural de la Universidad Nacional de San Augustin de Arequipa. V. by letter. Recordings accepted – 89) see 77.

90) Arica 30, Iquitos. **L.P:** Dir: R. Curzado. **Ann:** "Desde el Corazón de la Amazoná Peruana transmite R. Loreto La Voz del Oriente Peruano" or "Transmite R. Loreto desde Iquitos".

91) Cas. 188, Tacna. **L.P:** Dir: J. Cáceres. **Ann:** "Transmite R. Tacna y La Voz del Sur simultáneamente". V. by letter.

92) Unión 1038, Lima. **L.P:** Dir: G. D. Brandt. Dir. Tec: A. Gonzalez A. **Ann:** "En su receptor y en todas partes R. Central, La Emisoras más Popular" – 93) Tumbes. V. by letter – 94) Pucallpa. **L.P:** Dir. Gen: D. Zevallos R. Dir. Tec: M. Iwamoto. Dir. of Adm: C. del Aguila R.

95) Nicolás de Piérola 1014, Lima. **Ann:** "Esta es OAX4N, R. Selecta de Lima, una emisora al servicio de la cultura musical del pais".

96) San Martin 251, Ica.

97) 28 de Julio 203, Ayacucho. **Ann:** "Transmite OAX5H en 1340kc, R. Ayacucho desde la ciudad de Ayacucho, Peru; emisora afiliada a la organización de R. Victoria de Lima" – 98) Talara.

99) Paseo Colón 299, Lima – 100) Cuzco 850, Piura. **L.P:** Dir: J Girón S – 101) Ca. Morena 20.22, Iquitos – 102) see 35).

103) 28 de Julio 1389, Lima. **Ann:** "En 1440kc R. Continente, el punto de sintonia en Lima, Peru" – 104) San Bernardo 132, Cuzco.

105) Coronel Portillo 446, Pucallpa. **L.P:** Dir: F. Rodriguez R.

106) Av. Tulumayo 744-C, Cuzco.

Medium Waves:

107) **La Voz de Oriente**, Lima – 108) **R. Cultural Toquepada**, Box 303, Tacna – 109) **R. Chepen**, La Libertad.

110) **Gran Unida Escolar Inca Garcilazo**, Cuzco – 111) **R. Regionalista**, Salaverry s/n, Ica – 112) **R. Ondas del Norte**, Ca. Salaverry 345, Trujillo – 113) **R. Cultura** – 113a) **R. Imperial**, Ayacucho 598, Cañete.

114) **R. Progreso**, Gonzalez de la Rosa 470, Lima – 115) **R. Imperial**, Jirón Miguel Grau, Lunahuaná.

116) **R. Constelación**, Manuel Ruiz 504, Chimbote – 117) **R. Latino Americana** – 118) **C.R.U**, Urbanización California, Trujillo – 119) **R. El Carmen** – 120) **R. Sudamericana**, Independencia 565, Trujillo. V. by letter.

121) **R. Libertad**, Unión 1038, Lima. **Ann:** "La Voz de la Juventud".

122) **R. Convención**, Quillabamba – 123) **R. Nor-Peru**, Ca. Arica 1030, Chiclayo – 124) **R. Casma**, Manco Capac 115, Casma – 125) **R. Sapito**, Manzana 10, Satipo – 126) **R. Heroica**, San Jose 1047, 4to Piso, Chiclayo – 127) **R. Bolognesi**, Jirón Loreto 451, Huancayo – 128) **R. Albujar**, Trujillo – 129) **R. Salcantay**, Triunfo 370, Cuzco – 130) **R. San Miguel**, Piura – 131) **R. Musical**, Barranca – 132) **R. Bahia**, Pasaje 151, Chimbote.

133) **R. Chinchaysuyo**, Jirón Maurtua 189, Chincha Alta – 134) **R. Huascaran**, Gamarra 104, Huaraz – 135) **R. San Antonio**, Pablo Nosiglia 235, Cañete – 136) **R. Marina**, Vicariato Apostolica, Iquitos.

137) **R. San Pedro de Grocio Prado** – 137a) **R. Chalaca**, Callao.

138) **R. Atalaya**, Camaná 975, Lima – 139) **R. Latina**, San Martin 561, Tacna.

140) **R. La Voz del Sur**, Tacna – 141) **R. Chincha**, Los Angeles 322, Chincha – 142) **R. Huaral**, Av. Cahuas 447, Huaral – 143) **R. Jauja**, Jirón Junin 901, Jauja.

144) **R. Interamericana**, Alfonso Ugarte 441, Chimbote, Ancash. **L.P:** Dir: N. Arias L. **Ann:** "La Voz del Pacifico desde Chimbote, Ancash".

145) **R. Nor-Peru. L.P:** Dir: J. Pacheco S – 146) **R. Sargento Lores**, Inspección General del Ejército, Iquitos – 147) **R. Apurimac**, Abancay.

148) **R. Peru**, Jiron Trujillo 106, Chepen – 149) **R. Catacaos**, Ca. Comercio 590, Catacaos.

150) **R. Universal**, Ca. Real 578, Tambo. **L.P:** Dir. J. Pomalaza B.

151) **R. El Tiempo**, Ca. Santa Martha 310, Arequipa – 152) **R. Internacional**, Av. 8 de Setiembre, Piso – 153) **R. Santa Rosa**, Camaná 170, Lima. **Ann:** "Para Ud. transmite R. Santa Rosa en su frecuencia de 1490kc onda larga" – 154) **R. Fessa**, Av. Oscar Benavides s/n, Cañete.

155) **R. Pacasmayo**, Junin 57, Pacasmayo – 156) **R. La Nueva Voz del Centro**, Real Tambo 600, Tambo – 157) **R. San Pedro**, Av. 27 de Octubre, Mala – 158) **R. Surperuana**, Televisora Sur Peruana S.A, Arequipa – 159) **Universidad Nacional del Cuzco**, Cuzco – 160) **Prelatura Nullius**, Apt. 46, Sicuani.

SURINAM

L.T: GMT – 3 1/2 h – **Pr.L:** Dutch, Talkie, Hindustani.

RADIO APINTIE (Comm.)

ADDR: P.O. Box 1838, Paramaribo. **Te:** 5224. **Cable:** Fructomel. **L.P:** Dir: Ch. E. Vervuurt.

STATION: PZX7 840kc 355m 1kW – **HOME SCE.** in Dutch, Talkie-Talkie, English, Hindustani, Javanese, Chinese: 08.00–03.30.

ANN: "R. Apintie, Paramaribo" – **INT-SIG:** The beat of the Apintie drum. – V. by letter.

RADIO PARAMARIBO (Comm.)

ADDR: P.O. Box 975, Paramaribo. **Te:** 4131. **Cable:** Rapar – **L.P:** Dir. Gen: W. H. Lionarons.

STATION: 600kc 10kW – **HOME SCE.** in Dutch, Talkie-Talkie, English, Hindustani, Javanese, Chinese: 09.30–03.30 – **ANN:** "R. Paramaribo Rapar, de stem van Suriname, op de 500m of 600kc". E: "R. Paramaribo Rapar, the voice of Surinam, operating on a freq. of 500m or 6000kc".

R. SURINAME (Gov.)

ADDR: Regirings Voorlichtings Dienst Suriname, Paramaribo.

STATIONS: PZX3 1030kc 1kW – PZX4 3395kc 88.37m 0.35kW – PZX2 4849kc 61.87m 2.5kW – PZC 9752kc 30.77m, 15406kc 19.47m, 15465kc 19.40m all 0.35kW – **D.PRGR'S:** Irregularly.

R. NICKERIE N.V. (Priv, Comm.)

ADDR: Paramaribo – **STATION:** 3297kc 91.00m 0.05kW.

D.PRGR'S: Irregularly.

RADHIKA (Priv.)

ADDR: Radio Diehaat Kie Awaaz, Paramaribo – **STATION:** 640kc 1kW.

URUGUAY

DIRECCION DE RADIOCOMUNICACIONES, Montevideo.

L.P: Dir: R. Buoncristiano.

ASOCIACION NACIONAL DE BROADCASTERS URUGUAYOS (ANDEBU)

ADDR: Ca. Yi 1264, Montevideo. **Te:** 84456. **Cable:** Andebu – **L.P:** Pres: Dr. J. Jimenez de Aréchaga. Secr: F. Raul Correa.

STATIONS: All st. pr. comm. exc. 7), 33), 34). * = inactive.

Short Waves: Call: CX---. Location: Montevideo exc. where indicated.

	Call	kc	m	kW	Name & h of tr.
1)	A2	6000	50.00	5	R. Sur: 10.00–03.00
2)	A30	6035	49.71	1	R. Nacional: 15.00–03.00
3)	A61	6045[2]	49.63	1	El Espectador: 12.00–08.00
4)	A53	6055	49.55	5	La Voz de Melo, Melo: 10.00–03.00
5)	A3	6075	49.38	2.5	R. Ariel: 10.00–03.00
6)	A73	6115	49.06	1	R. Clarin: 11.00–02.00
7)	A4	6125	48.98	10	S.O.D.R.E: 13.00–03.10
8)	A20	6140	48.86	10	R. Monte-Carlo: 10.00–03.00
9)	A13	6155[1]	48.74	10	R. Carve: 13.00–17.00, 21.00–02.00
10)	A21	6170	48.62	1	R. Fenix: 14.00–16.00, 21.00–01.00
11)	A71	9515	31.53	10	R. Sarandi: 15.00–22.00
8)	A72	9595	31.27	10	R. Monte-Carlo: 14.00–19.00
7)	A6	9620	31.19	20	S.O.D.R.E: 13.00–03.10
12)	A7	11735	25.56	5	R. Oriental: 10.00–04.00
3)	A19	11835[2]	25.35	5	El Espectador: 12.00–05.00
11)	A68	11885	25.24	10	R. Sarandi: 22.00–01.00
7)	A10	11900	25.21	20	S.O.D.R.E: 13.00–03.10
4)	A64	15225	19.70	25	La Voz de Melo
7)	A18	15270	19.65	1	S.O.D.R.E: 12.00–03.10
11)	A60	15385	19.49	10	R. Sarandi: 01.00–08.00

[1] = No-So. [2] = d. NoWe – SoEa.

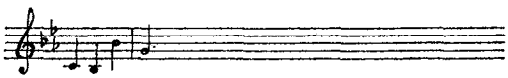
Medium Waves: ° = Short Wave.

	Call	kc	kW		Call	kc	kW
13)	CW1	550	4.5	17)	CW17	900	0.25
6)	CX58	°580	0.5	8)	CX20	°930	18
14)	CX4	610	5	18)	CX22	970	1
7)	CX6	°650	50	9)	CX24	1010	10
15)	CW27	680	1/0.25	7)	CX26	°1050	20
11)	CX8	°690	10/5	19)	CX28	1090	15
5)	CX10	°730	5/2.5	20)	CW31	1120	2.5
12)	CX12	°770	25	2)	CX30	°1130	10/5
3)	CX14	°810	25	1)	CX32	°1170	10/5
16)	CW23	820	1/0.5	21)	CX33	1200	1
9)	CX16	°850	50	22)	CX34	1210	2
3)	CX18	°890	10/5	23)	CW35	1240	2.5

PARA TODOS LECTORES HABLANDO ESPAÑOL
Si quiere Vd., libre de gastos, un ejemplar de nuestro vocabulario inglés-español, que contiene palabras y frases del WRTH, sirvase escribir a **World Radio TV Handbook Co. Ltd.** Sundvej 6, Hellerup, Denmark.

	Call	kc	kW		Call	kc	kW
24)	CX36	1250	3.1	39)	CX48	1490	2
3)	CW37	°1260	1/0.25	40)	CW47B	1510	0.1
7)	CX38	°1290	1	41)	CX152	1520	2/0.25
25)	CW39	1320	0.5/0.1	42)	CX50	1530	1.25
26)	CW133	1330	0.25	43)	CV153	1530	1
10)	CX40	°1330	1	44)	CX155	1550	0.25
4)	CW53	°1340	2.5/1	45)	CW51	1560	0.5
27)	CW41	1360	5	46)	CX156	1560	1
28)	CX42	1370	2.5	47)	CV156	1560	0.7
29)	CW45	1390	0.25	48)	CW52	1570	0.25
30)	CX140	1400	10/5	49)	CV157	1570	0.1
31)	CX44	1410	5	50)	CX157	1570	1
32)	CW43	1420	1/0.5	51)	CW54	1580	0.25
33)	CW25	1430	1	52)	CV158	1580	0.1
34)	CX46	1450	5/2.5	53)	CX159	1590	0.25
35)	CW46B	1460	0.25	54)	CW56	1600	0.25
36)	CW46C	1460	0.03	55)	CV160	1600	0.1
37)	CX147	1470	1.05	56)	CX160	1600	1
38)	CW43B	1480	1				

Short Waves:
1) Compañia Uruguaya de Publicidad S.A, Yi 1383, Montevideo. **L.P:** Dir: J. L. E. Amoroso. CXA32 **R. Sur.**
2) O.R.O,S.A, Plaza Independencia 846, Montevideo. **L.P:** Dir: L. Svirski. CXA30 **R. Nacional. V.** by QSL-card.
3) Difusoras del Uruguay S.A. Soriano 1287, Montevideo. **Te:** 81481. **Cable:** Difuruguay. **L.P:** Dir. Gen: H. Amengual. Dir. Tec: R. Danilo **V. D.Prgr:** CX18 **R. Libertad Sport:** 13.00–06.00; CW37 **Difusora Rochense,** Dr. Julián Graña 119, Rocha: 11.00–01.00(Sat/Sun 03.00). **Ann:** Transmite CX14 El Espectador, de Montevideo, Uruguay con sus ondas cortas CXA19 y CXA61 en las bandas de 25 y 49 m" – **Int-Sig:** Vibraphone.



V. by letter. Recordings accepted.
4) Montevideo 721, Melo. **L.P:** Dir: R. D. Lucas. **D.Prgr:** CW53 11.00–03.00.
5) Olimar 1472, Montevideo. **L.P:** Dir: J. U. Pierri. **V.** by QSL-card.
6) Colonia 1487, Montevideo. **Te:** 405841. **L.P:** Dir: Ing. F. D. Toureilles. Dir. Tec: G. Duarte. **D.Prgr:** N: 11.00, 13.00, 15.00, 17.00, 19.00, 21.00, 23.00, 01.00. **Ann:** "Transmite CX58 CLARIN, 58 en su dial, y su onda corta CXA73 en la banda de 49 metros, República Oriental del Uruguay". **V.** by letter.
7) Mercedes 823, Montevideo. **Cable:** Sodre. **L.P:** Dir: J. Zavala Carvalho. Dir. Tec: O. F. Chiappe. **D.Prgr:** On *650/9620/11900:* 13.00–03.10. CXA38: 21.00–03.00. N: 13.00, 15.00, 20.00, 24.00, 02.55. **Ann:** "Servicio Oficial de Difusión R. Electrica Montevideo con sus emisoras". **Int-Sig:** First movements of "Campo". **V.** by QSL-card.
8) 18 de Julio 1224, Montevideo. **Cable:** Montecarlo. **L.P:** Dir. Gen: D. Romay. **D.Prgr:** CXA20 930kc: 10.00–03.00.
9) Mercedes 973, Montevideo. **Te:** 983471. **Cable:** Sadrep. **L.P:** Dir: Gen: R. Fontaina. Mgr: J. E. de Feo. Dir. Tec: A. Salvo. **D.Prgr:** 09.00–02.00 (mw). N: 10.00, 14.00, 15.00, 18.00, 19.00, 20.00, 21.00, 22.00, 23.00, 24.00, 01.30. **Int-Sig:** Gong. **V.** by letter. Recordings accepted. **CX24:** "La Voz del Aire".
10) Rio Branco 1366, Montevideo. **L.P:** Dir: J. J. Rabassa. **D.Prgr:** CX40: 10.00–05.00(Sat 06.00).
11) Corporación de Publicidad, S.A, Enriqueta Compte y Rique 1282, Montevideo. **Te:** 28185. **L.P:** Dir: M. Vergara. **D.Prgr:** CX8: 08.00–03.00. N: every h on the h. **V.** by letter.
12) Olimar 1364, Montevideo. **Te:** 985183. **L.P:** Dir. Gen: J. Carlos Shaw. Dir. Tec: A. Razetti. **D.Prgr:** 10.00–04.00. N: 14.00, 16.00, *20.00, 23.00, 24.00, 01.00, 02.30, 03.30. Portuguese: Mon–Fri 23.10* "Música Brasileña". **Ann:** "Transmiten CX12 y CXA7, emisoras de R. Oriental de Montevideo, Uruguay. **Int-Sig:** Vibraphone or Xylophone. **V.** by QSL-card and letter.

Medium Waves:
13) **R. Colonia,** Ca. Rivadavia 383, Colonia – 14) **R. Rural,** 18 de *Julio 1513,* Montevideo. **L.P:** *Dir: A. M. Lázaro.* **D.Prgr:** *10.00–03.00* (Sat & Sun 06.00). N: every h on the h.
15) **R. Tabaré,** Uruguay 678, Salto. **L.P:** Dir: J. M. Gestoso. **D.Prgr:** 10.00–03.00 – 16) **R. Cultural,** Lavalleja 42–48, Salto. **L.P:** Dir: J. Vinci. **D.Prgr:** 10.00(Sun 10.30)–03.00 – 17) **R. Frontera,** Garzón 428, Artigas – 18) **R. Universal,** Soriano 1217, Montevideo. **L.P:** Dir: O. Porrás. **D.Prgr:** 10.00–03.00(Sat 05.00) – 19) **R. Imparcial,** Av. Algraciada 1708, Montevideo. **L.P:** Dir: W. Figueira M. **D.Prgr:** 24 h. **V.** by QSL-card.
20) **R. Salto,** Brasil 715, Salto. **L.P:** Dir: S. Pera. **D.Prgr:** 11.00–03.00. **V.** by letter – 21) **Difusora Florida,** Gallinal 696, Florida. **L.P:** Dir: U. H. Acuña. **D.Prgr:** 13.00(Sun 12.30)–01.00 – 22) **R. Artigas,** Av. Millan 2370, Montevideo. **D.Prgr:** 12.30–02.30 – 23) **R. Paysandu,** 18 de Julio 1044, Paysandú. **L.P:** Dir: A. M. Ordoqui. **D.Prgr:** 11.00–03.00 – 24) **Broadc. Centenario del Uruguay,** Olimar 1364, Montevideo. **V.** by letter – 25) **La Voz de Paysandú,** 18 de Julio 614, Paysandú. **L.P:** Dir: E. Estefanell. **D.Prgr:** 11.00–03.00 – 26) **La Voz de Artigas,** Artigas. **L.P:** Dir: L. Murillo M – 27) **Broadc. San José,** Treinta y Tres 890, San José. **D.Prgr:** 13.00–02.00 – 28) **R. del Pueblo,** Mercedes 1805, Montevideo. **L.P:** Dir: R. Baz. **D.Prgr:** 11.15–03.00. 29) **Difusora Treinta y Tres,** Pablo Zufriategui 230, Treinta y Tres. **L.P:** Dir: A. Pinho. **D.Prgr:** 10.50–03.00.
30) **R. Zorilla de San Martin,** 18 de Julio 304/10, Tacuarembó. **L.P:** Dir: L. S. Dini – 31) **R. Austral,** 18 de Julio 965, Montevideo. **L.P:** Dir: Raúl Beisso C. **D.Prgr:** 11.55(Sun 08.25)–02.00 – 32) **R. Lavalleja,** José E. Rodó 530, Minas. **L.P:** Dir: J. R. Volante. **D.Prgr:** 12.55–02.00 – 33) **R. Durazno,** Ca. Dr. E. Penza 805, Durazno. **L.P:** Dir: R. Evangelisti. **D.Prgr:** 14.00–00.30 – 34) **R. America,** Plaza Independencia 846, Montevideo. **L.P:** Dir: L. Svirsky. **D.Prgr:** 13.00(Sun 12.00)–*17.00, 19.00–01.00* – 35) **Liceo de Dolores,** Liceo de Dolores, Soriano. 36) **Liceo de San Carlos,** San Carlos, Maldonado. **D.Prgr:** 21.00–24.00. 37) **R. Montevideo,** Rio Branco 1366, Montevideo. **L.P:** J. J. Rabassa. **D.Prgr:** 11.00–02.00 – 38) **R. Internacional,** Sarandí 792, Rivera. **L.P:** Dir: W. Figueira M. **D.Prgr:** 09.00–03.00 (Sat/Sun 24 h) – 39) **R. Femenina,** 18 de Julio 1333 2° piso, Montevideo. **L.P:** Dir: Sara Vazquez. **D.Prgr:** 13.00–01.45.
40) **R. Berna,** Nueva Helvecia. **L.P:** Dir: M. A. Ravazzani. **D.Prgr:** 10.00–16.30, 18.00–23.00 – 41) **R. Cerro Largo,** Ituzaingo 660, Melo. **D.Prgr:** 09.00–03.00. **V.** by letter.
42) **R. Independencia,** Paysandú 1186, Montevideo. **L.P:** Dir: A. Rupenián. **D.Prgr:** 08.00–03.00. **V.** by letter – 43) **R. Rincón,** Treinta y Tres 3223, Fray Bentos – 44) **R. Carmelo,** 19 de Abril 444, Carmelo. **L.P:** Dir: U. Lobecio P. **D.Prgr:** 11.00–03.00 – 45) **R. Maldonado,** Isla de Gorriti 819, Maldonado. **L.P:** Dir: E. Lamaison. **D.Prgr:** 11.00–03.00 – 46) **R. Americana,** Trinidad – 47) **R. Vichadero,** Av. Centenario, Vichadero – 48) **R. Litoral,** España 1157, Fray Bentos. **L.P:** Dir: G. Arizti. **D.Prgr:** 12.00–02.00 – 49) **Difusora del Norte,** Bella Union. **L.P:** Dir: W. Othaix. **D.Prgr:** 11.00–03.00.
50) R. Canelones, Canelones. **L.P:** *Dir:* W. Espiga. **D.Prgr:** *11.30–02.00* – 51) **Emisora del Este,** Domingo Perez 491, Minas. **L.P:** Dir: C. R. Falco. **D.Prgr:** 10.30–02.00 – 52) **R. Rivera,** Monseñor Vera 1132, Rivera. **L.P:** Dir: D'Artagnán Pedezert. **D.Prgr:** 10.30–17.00, 20.00–00.30 – 53) **Emisora Real de San Carlos,** Av. Gral. Flores 468, Colonia. **L.P:** Dir: B. Airaldo. **D.Prgr:** 10.00–03.00 – 54) **Difusora Soriano,** Florida 568, Mercedes. **L.P:** Dir: M. M. Racioppi. **D.Prgr:** 10.00–03.00 – 55) **R. San Carlos,** Sarandí 774, San Carlos, Maldonado **D.Prgr:** 10.00–02.00 – 56) **R. Rio Branco'** Rio Branco. **L.P:** Dir: R. D. Lucas.

VENEZUELA

L.T: GMT–4 h – **Pr.L:** Spanish

MINISTERIO DE COMUNICACIONES – **ADDR:** Dirección de Telecomunicaciones, Division de Radiodifusión, Caracas.

CAMARA VENEZOLANA INDUSTRIA RADIO Y TELEVISION – **ADDR:** Apt. 3155, Caracas. **Cable:** Camradio. **Te:** 425805.

STATIONS: All st's comm. exc. 52) (Gov.) and 5) (Educational). **Short Waves:** Call: YV---.

	Call	kc	m	kW	Name	h of tr.
1)	PL	2340	128.4	1	R. Nueva Esparta, Porlamar	
2)	PH	2350	127.6	1	R. Guarico, San Juan de los Morros	
3)	QG	2360	127.1	0.5	R. Carúpano:	09.00–03.00
4)	QP	2370	126.1	1	R. Puero La Cruz	
5)	PM	2430	123.5	1	Escuelas Radiofonicas, San Fernando:	20.00–01.00
6)	LG	2440	122.9	1	R. Girardot, Maracay	
7)	OX	2450	122.5	1	R. Los Llanos, Calabozo	
8)	NI	2470	121.5	0.2	R. Carorá:	11.00–02.00
9)	PD	2480	120.9	1	La Voz del Avila, Caracas	
10)	SV	2490	120.5	1	R. Naiguata, Naiguata	
11)	KT	3245	92.45	1	R. Libertador, Caracas	
12)	QL	3255	92.15	1	La Voz del Tigre:	11.00–03.00
13)	OC	3265	91.87	1	R. Nirgua	
14)	MC	3275	91.60	1	R. Mara, Maracaibo:	10.00–02.30
15)	LE	3285	91.32	1	R. Puerto Cabello:	10.00–04.00
16)	OG	3295	91.10	1	R. Trujillo:	10.30–02.00
17)	KX	3305	90.77	1	La Voz de la Patria, Caracas:	10.00–03.00
18)	LI	3315	90.50	1	R. Maracay:	11.00–03.00
19)	RA	3325	90.22	1	R. Monagas, Maturin:	10.00–04.00
20)	QC	3335	89.95	1	Ecos del Orinoco, Ci. Bolivar:	09.50–03.00
21)	PE	3345	89.68	1	R. Central, Maracay	
22)	LC	3355	89.41	1	R. Valencia:	10.00–03.00
23)	PM	3365	89.15	1	R. Tovar, Tovar Mérida:	09.55–02.00
24)	MI	3375	88.89	0.5	La Voz de la Fé, Maracaibo:	20.00–04.00
25)	QI	3385	88.63	1	R. Barcelona:	09.00–03.00

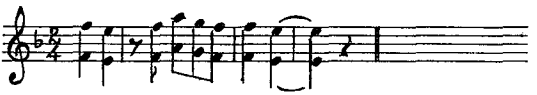
	Call		kc	m	kW	Name	h of tr.
26)	OJ	3395	88.37	1		R. Universidad, Mérida:	10.00–03.00
27)	KY	4760	63.03	1		Emisora Vargas, La Guaira:	10.00–03.00
28)	NW	4770	62.89	1		R. Bolivar, Ci. Bolivar:	10.00–03.00
29)	LA	4780	62.76	1		La Voz de Carabobo, Valencia:	10.00–03.30
30)	QN	4790	62.63	5		Ondas Porteñas, Pto. La Cruz:	10.00–03.00
31)	ME	4800	62.50	1		Ondas del Lago, Maracaibo:	10.00–03.00
32)	MG	4810	62.37	2		R. Popular, Maracaibo:	10.00–03.00
33)	RC	4820	62.24	1		La Voz de Apure, S. Fernando de Apure:	11.00–02.00
34)	OA	4830	62.11	5		La Voz del Tachira:	10.00–04.00
35)	OI	4840	61.98	1		R. Valera:	11.00–03.00
36)	MS	4850	61.86	10		R. Universo, Barquismeto:	09.58–04.00
37)	QE	4860	61.73	1		R. Cúmaná:	10.00–03.00
38)	KP	4870	61.60	5		R. Tropical, Caracas	
39)	KF	4880	61.48	5		Ondas Populares, Caracas:	10.00–04.00
40)	KB	4890	61.35	5		R. Dif. Venezuela, Caracas:	10.00–04.00
41)	NK	4900	61.22	10		R. Juventud, Barquisimeto:	10.00–04.00
42)	MK	4910	61.10	1		R. Cabimas:	10.00–03.00
43)	KR	4920	60.99	7.5		R. Caracas:	10.00–05.00
44)	OT	4930	60.85	1		R. Junin, S. Cristóbal:	10.00–04.00
45)	MO	4940	60.73	10		R. Lara, Barquisimeto:	09.58–04.00
46)	MM	4950	60.60	1		R. Coro:	10.00–03.00
47)	QA	4960	60.48	1		R. Sucre, Cumaná:	10.00–03.00
48)	LK	4970	60.36	10		R. Rumbos, Caracas:	09.00–04.00
49)	OC	4980	60.25	1		Ecos del Torbes, S. Cristóbal:	10.00–03.00
50)	MQ	4990	60.12	10		R. Barquisimeto:	10.00–04.00
51)	RW	5010	59.88	1		R. Bocono, Bocono	
52)	KO	5020	59.76	10		R. Nacional, Caracas	
53)	KM	5030	59.64	7.5		R. Continente, Caracas:	09.30–03.00
54)	MA	5040	59.55	1		Ecos del Zulia, Maracaibo:	10.00–04.00
55)	KD	5050	59.41	2		R. Cultura, Caracas:	10.00–03.00
56)	NL	6000	50.00	1		R. Miranda, Los Teques	
57)	PN	6110	49.10	10		Escuelas Radiofonicas, S. Fernando	
58)	TE	6130	48.94	1		R. Valles del Tuy, Ocuma del Tuy	
52)	KG	6170	48.62	10		R. Nacional, Caracas:	10.00–04.00
50)	XJ	9510	31.55	10		R. Barquisimeto:	10.00–04.00
°)	MX	9530	31.48	1		Various tr's. Maracaibo	
°°)	OM	9570	31.55	1		Various tr's, S. Cristóbal	
52)	SC	9640	31.12	10		R. Nacional, Caracas	
49)	PG	9640	31.12	2.5		Ecos del Torbes, S. Cristóbal:	10.00–22.00

°)=Common freq. for 31), 32), 54), 67) – °°)=Common freq. for 34), 44).

Medium Waves: Call: YV--. °=Short Wave. [1]=also FM.

	Call	kc	kW		Call	kc	kW		Call	kc	kW
52)	SI	540	50	44)	OL	°870	10	75)	SD	1160	10
52)	SJ	550	10	11)	KU	°880	5	76)	QV	1170	1
52)	KZ	550	1	45)	MP	°880[1]	10	77)	OV	1180	1
48)	LX	°560[1]	50	64)	LW	890	10	78)	OR	1180	10
52)	SJ	570	50	52)	SM	900		79)	RE	1190	1
24)	MJ	°580	10	65)	RQ	910		9)	OZ	°1200	10
53)	KL	°590	20	1)	QX	°920	10	46)	MN	°1210	1
58)	SF	°600	15	18)	LJ	°930	1	33)	RD	°1220	10
59)	NO	610	10	3)	QB	°940	10	80)	NT	1230	10
60)	SE	620[1]	10	39)	KG	°950	5	35)	OH	°1230	1
52)	KA	°630	10	19)	RB	°960	10	81)	LQ	1240	1
52)	SL	630	10	66)	ND	970	10	82)	NU	1250	1
30)	QO	°650	10	12)	MQ	°980	1	42)	ML	°1250	1
6)	LH	°660	50	21)	LR	°990	10	10)	SU	°1260	1
48)	LL	°670[1]	10	34)	OB	°1000	10	83)	OU	1270	1
50)	MR	°680	50	67)	NM	1000	10	84)	TR	1270	1
28)	QF	°680	10	68)	PC	1010	1	13)	RY	°1280	1
29)	LB	°690	1	47)	QT	°1020	10	15)	LF	°1290[1]	2
32)	MH	°700	10	69)	NZ	1030	10	85)	KE	1300	5
17)	KY	°710	5	20)	QD	°1030[1]	1	86)	NS	1300	1
37)	QR	°720	10	70)	ON	°1040[1]	1	87)	QY	1310	1
36)	MT	°730	10	38)	RT	°1050	10	88)	OE	1320	1
61)	NC	740	10	2)	LN	°1060	10	7)	OY	°1330	1
43)	KS	°750	10	27)	KW	°1070	1	89)	QU	1340	1
28)	MV	°760	10	71)	NG	1070	1	90)	NH	1350	1
4)	QQ	°770	10	25)	QJ	°1080	10	91)	LO	1370	1
49)	OD	°780	10	72)	PB	1090	1	92)	QZ	1390	1
48)	KC	°790	5	55)	KE	°1100	10	93)	NV	1410	1
54)	MB	°800	20	73)	NN	1110	10	16)	OF	°1420	1
62)	LP	810	10	31)	MF	°1120	10	94)	NJ	1430	1
63)	SH	820	10	71)	NA	1130	1	95)	FR	1440	1
56)	LT	°830	10	51)	TD	°1130	1	26)	OK	°1450	1
41)	MY	°840[1]	10	8)	MU	°1140[1]	10	23)	OP	°1480	1
22)	LD	°850	10	14)	MD	°1150	1	5)	OW	°1490	1

Short Waves:
1) Porlamar – 2) Apt. 25, S. Juan de los Morros. **Te:** 81 – **L.P:** Dir. Gen: J. Ghersi, Dir. Tec: S. Dominguez C.
3) Carupano – 4) Puerto La Cruz – 5) San Fernando – 6) C. A. R. Girardot, Maracay – 7) Calabozo.
8) Ca. Bolivar 58, Carora, Estado Lara. **Te:** 1121. **L.P:** Dir: C. J. Gonzalez. **D.Prgr:** N: 11.00, 16.00, 21.30. **Ann:** "R. Carora YVMU 1140kc onda larga, YVNI 2470kc onda corta transmitiendo desde Carora capital del Distrito Torres, Estado Lara, República de Venezuela, Patria del Libertador" – **Int-Sig:** Xylophone every 15 min's. **V.** by letter. Recordings accepted.
9) Caracas – 10) Naiguata – 11) Palma Miracielos, Edif. "Henry Clay", 2do piso, Caracas.
12) El Tigre (Anzóategui) – 13) Nirgua.
14) Apt. 100, Maracaibo. **L.P:** Dir: L. A. Goveá.
15) Apt. 4, Pto. Cabello. **Te:** 33-88. **L.P:** Dir. Gen: S. Guevara V. Dir. Tec: P. J. Curvelo. **D.Prgr:** N: 11.00, 03.00 and short N every half h 10.00–04.00. **Ann:** "Esta es R. Puerto Cabello, una emisora al servicio de su región desde Puerto Cabello Venezuela, Patria del Libertador y Pais Democrático de America". **V.** by letter. Recordings accepted. **F.PL:** 10kW.
16) Ca. Independencia 200, Trujillo. **L.P:** Dir: P. J. Torres.
17) C. A. La Voz de la Patria, Caracas. **V.** by letter – 18) Maracay.
19) Apt. 14, Maturin. **Te:** 1001. **L.P:** Dir. Tec: R. Phillips. **Ann:** "R. Monagas, YVRB 960kc onda larga, YVRA 3325kc onda corta banda de 90 metros YVRB/FM 88.5Mc". **V.** by letter. Re. in Sp, E.
20) Apt. 47, Ci. Bolivar. **Te:** 20413. **L.P:** Dir. Gen: E. Bellorin A. **Ann:** "Con el avance económico y cultural de la Guayana transmite Ecos del Orinoco un punto de amistas en su dial, Emisoras YVOC 1030kc onda larga, YVOD 3335kc onda corta en banda trópical de 90 metros y YVOC/FM.. en Ci. Bolivar, Venezuela, Patria de El Libertador". **V.** by letter with card. **Pub:** Schedule free on request.
21) Maracay – 22) Valencia. **L.P:** Dir: M. Aché – 23) Cra. 4 No 5-48, Tovar. **V.** by letter.
24) Apt. 459, Maracaibo. **L.P:** Dir. Gen: O. Soto L. Dir. Tec: J. Salcedo. Dir. Prgr: J. Soto. **D.Prgr:** 10.00–03.55. **V.** by letter. Recordings accepted – 25) Apt. 27, Barcelona.
26) Apt. 74, Mérida. **Ann:** "R. Universidad la Emisora de Merida". **V.** by letter – 27) La Guaira. **L.P:** Dir: P. Sosa Gusmán.
28) Ca. Dalle Costa 5, Ci. Bolivar. **L.P:** Dir. J. Antonio N. Dir. Tec: J. Bisconti. **D.Prgr:** N: 11.00, 16.30, 02.45 – 29) Valencia. **V.** by letter.
30) Apt. 4123, Puerto La Cruz. **Te:** 1033. **Cable:** Ondport. **L.P:** Dir. Gen: R. Bellorin M. Dir. Tec: R. Alfonzo. **Ann:** "Transmite Ondas Porteñas y su Gran Circuito Nacional RT, desde Puerto La Cruz, Venezuela, Patria del Libertador y País Democrático de América". **V.** by letter. Recordings accepted.
31) Apt. 261, Maracaibo. **Te:** 76261. **Cable:** Lagonda. **L.P:** Pres: N. Vale Quintero. St. Mgr: J. Vale Castilla, Dir. Tec: I. Salcedo. **D.Prgr:** N: W 12.00, 17.00, 02.30. Sun 17.30, 24.00. **Ann:** "Desde Maracaibo, Venezuela Patria del Libertador, País Democrático, Transmite Ondas del Lago, Emisoras YVME 1120kc, YVMF 4800kc Onda corta". **Int-Sig:**



V. by QSL-card. Re. in Sp, E.
32) Apt. 347, Maracaibo. **L.P:** Dir: J. Higuera M. **V.** by QSL-card.
33) Apt. 14, San Fernando Apure.
34) Apt. 37, San Cristóbal. **Te:** 11002. **L.P:** Dir. Gen. & Dir. Tec: J. M. Diaz González. **Ann:** "La Voz del Tachira, YVOB 1000kc Onda Larga, YVOA 4830kc Onda Corta y YVOM 9750kc Banda Internacional de 31 mts; FM 88.3 y 98.3Mc por segundo, desde San Cristóbal, en Venezuela, Patria del Libertador y País Democrático de América". **V.** by QSL-card or letter. Re. in Sp. E.
35) Ca. Bolivar 54, Valera. **L.P:** Dir: J. Ferbes J.
36) Apt. 567 Barquisimeto. **L.P:** Dir. Gen: R. Angel S. Dir. Tec: L. M. Pick. **D.Prgr:** N: 16.00, 23.00. **V.** by letter. Recordings accepted.
37) Cumaná.
38) San Jacinto 9, Caracas. **Ann:** "En cualquier sitio R. Tropical y su gran Circuito Nacional R. C". **V.** by QSL-card.
39) Edif. R. Centro, Apt. 2057, Caracas. **Te:** 418971. **V.** by QSL-card.
40) Cipreses a Miracielos 1, Caracas. **Ann:** "Radiodif. Venezuela – máxima en potencia y calidad – transmitiendo desde Caracas, Venezuela, cuna del Libertador".
41) Apt. 567 y 576, Barquisimeto. **L.P:** Dir. Gen: R. Angel S. Dir. Tec: L. M. Pick. **V.** by letter. Recordings accepted. **F.PL:** 50kW.
42) Ca. Democracia, Cabimas. **V.** by letter.
43) Coraven C. A, Barcenas a Rio, Caracas. **Te:** 418971. **Cable:** Coraven. **L.P:** Dir. Gen: A. Espina. **D.Prgr:** N: Every half h. **Ann:** "R. Caracas". **V.** by QSL-card or letter.
44) Apt. 220, San Cristóbal. **L.P:** Dir: P. Vivas Arellano.
45) Apt. 576, Barquisimeto. **L.P:** see 41. **V.** by letter.
46) Comercio y Monzón 77, Coro. **L.P:** Dir. Gen: R. Leyba. Dir. Tec:

V. J. Róca. **Int-Sig:** Opens and closes with the march "Los Tres Colores" and the Nat. Anthem. V. by letter.
47) Apt. 26, Cumaná. V. by letter.
48) Apt. 2618, Caracas. **Te:** 415963. **L.P:** Dir. Gen: F. M. Serrano. Dir. Tec: A. Gulbis. **D.Prgr:** N: 10.00, 15.30, 21.00, 03.30. **Ann:** "Transmite R. Rumbos, La Emisora de Venezuela, Cadena Nacional". **Int-Sig:** Gong. V. by QSL-card or letter. Recordings accepted. St's *transmitting in chain with R. Rumbos: 3), 25), 47), 73).*
49) Apt. 152, San Cristóbal. **L.P:** Dir: G. Gonzales. L. Dir. Tec: E. Marques. **Ann:** "Desde San Cristóbal, Venezuela Patria del Libertador, transmite Ecos del Torbes, su Emisora Predilecta, Estaciones YVOC 4980kc onda corta, 780kc onda larga y YVPG 9640kc banda *internacional de 31 metros*". V *by letter. Recordings accepted.* **F.PL:** 10kW on 4980kc.
50) Apt. 576, Barquisimeto. **L.P:** see 41. **D.Prgr:** N: 11.00, 16.30, 22.00, 02.30, 05.00. V. by QSL-card. Recordings accepted – 51) Bocono.
52) P.O. Box 3979, Caracas. **Te:** 720661. **L.P:** Dir. Gen: Dr. A. *Pizani P. Dir. Tec: L. Linares. C. Dir. Eng. Prgrs: G. Artiles.* **D.Prgr:** YVKZ: 12.00–04.00 – 540kc Maracaibo, 550kc Porlamar, 570kc Ciudad Bolivar, 630kc (KA=Caracas, SL=San Cristóbal), 900kc Mérida – V. by QSL-card.
53) Apt. 866, Caracas. **Te:** 543411. **Cable:** Continente. **L.P:** Pres: *C. W. White. Dir. Tec: J. Périco. Dir. Prgr: H. Requena C.* **D.Prgr:** N: 10.00, 15.00, 21.30. **Ann:** "Transmite R. Continente. la primera en sintonia, YVKL onda larga, YVKM onda corta. desde Caracas, Venezuela, cuna del Libertador, país democrático de América". V. by letter. Re. in Sp, E. Recordings accepted.
54) Apt. 37, *Maracaibo.* **Cable:** *Ecozulia.* **L.P:** *Gen. Mgr: A. Baralt L.* V. by QSL-card.
55) Apt. 1931, Caracas. **Te:** 410976. **L.P:** Dir. Gen: I. Neri. **Ann:** "En el año.. de nuestra independencia, desde Caracas, Venezuela, Cuna de El Libertador, transmite R. Cultura..". V. by QSL-card. **F.PL:** 20kW *tr.*
56) Los Teques. **L.P:** Dir: A. Landeata – 57) see 5).

Medium Waves:
58) **R. Caripito**, Apt. 10167, Caripito – 59) **R. Libertad**, Cabimas – 60) **R. Cristal**, Apt. 595, Barquisimeto –
61) **R. Mundo**. Av. 25 (Paraiso), Maracaibo – 62) **R. 810**, Valencia – 63) **R. Guayami**, Unica – 64) **R. America**, Valencia. **L.P:** Dir: P. Bernardo Heredia – 65) **R. Aeropuerto**, Maiguetia – 66) **R. Catatumbo**, Maracaibo – 67) **R. Morón**, Morón – 68) **R. Aragua**, Cagua – 69) **R. Calendario**, P.O. Box 789, Maracaibo.
70) **R. Los Andes**, Mérida – 71) **R. Lagunillas**, Lagunillas.
72) **R. Yaracuy**, 4a Av. 123, San Felipe. **Te:** 1056. **L.P:** Dir: F. Falkenhagen. **D.Prgr:** 10.50–02.00(Sun 22.30). N: 11.00, 17.00, 00.00 (Sat 23.30) – 73) **R. Punto Fijo**, Ca. Ecuador, Altos. Edif. Rofer, Punto Fijo – 74) Ondas de los Médanos, Coro – 75) **R. Turismo**, Valera – 76) **R. Acarigua**, Acarigua – 77) **R. Perijá**, Machiques – 78) **R. Maturin**, Maturin – 79) **R. Barinas**, Barinas.
80) **R. Barlavento**, Caucagua – 81) **La Voz de la Victoria**, La Victoria – 82) **R. Caroni**, San Felip – 83) **Ondas Panamericanas**, El Vigia – 84) **R. Tucupita**, Tucupita – 85) **R. Crono Radar**, Av. General Paéz, El Paraiso, Caracas – 86) **R. Reloj**, Maracaibo – 87) **R. Guanara**, Guanara.
88) **R. San Cristóbal**. Apt. 374, San Cristóbal. **Ann:** "Estaciones YVOE 1320kc y YVOM, Banda Internacional de 31m, transmitiendo desde San Cristóbal, Venezuela, Patria del Libertador, país democrático de América". V. by letter. *Recordings accepted.*
89) **R. San Carlos**, San Carlos – 90) **Ondas del Escalante**, Santa Bárbara del Zulia – 91) **R. dif. La Pascua**, Ca. Real 17, Valle de La Pascua – 92) **La Voz de Anaco**, Anaco – 93) **R. dif. Oriental**, Güria – 94) **R. Progreso**, Bachaquero – 95) **R. Orituco**, Altagracia de Orituco.

LAST MINUTE INFORMATION

ALBANIA: Foreign Sce: 1098kc actually on 1088kc. Albanian 00.30–01.00* on 7265/9390kc.

CUBA: R. Habana Cuba: French (to Mediterranean) 07.30–08.00 on 6015kc, 09.30–10.00 on 9685kc, 17.00–18.10 on 9550kc, 21.10–21.40 on 9525kc. Spanish (to the Americas) 03.00 on 5990/6060/9550/11930/11970kc.

ETHIOPIA: R. Voice of the Gospel: 13.15–14.00 (to Ceylon) & 14.00–15.00 (to India) on 9730kc, 15.00–15.45 (to Madagascar) on 9675kc, 16.00–16.30 (to Iran) on 9705kc, 16.30–17.15 (to Malawi) on 9565kc, 17.00–18.30 (to West Arab) on 11755kc.

FIJI: English: 18.00–23.30 on 3230/3935kc (VRH8/12), 23.30–03.45 on 4756/5980kc (VRH4/6), 04.00–10.30 on 3230/3935kc – **Vernaculars:** 18.00–21.00 on 3284/3980kc (VRH4/13), 21.00–04.00 on 4785/6005kc (VRH5/7), 04.00–10.30 on 3284/3980kc.

FRANCE: French Language Lessons: Arabic 09.23 (Mon, Wed, Fri) on 15135/17765kc, 16.20 (Tues, Thurs, Sat) on 7280/9585/11725kc – English 20.00(W) on 6175kc – German 18.45(W) on 1177kc – Rumanian 17.45 (Mon, Wed, Thurs, Fri) on 9755/11845kc – Russian 16.45 (Mon, Wed, Fri) on 7160/9620/11885kc – Portuguese 20.15(W) on 6175kc, 23.45(D) on 9755/11845kc – Spanish 20.30(W) on 6175kc, 00.30(D) on 9755/11845kc.

HUNGARY: Int-Sig: R. Kossuth: Played on 3 clarinets & 1 bass clarinet. R. Petöfi: 3 flutes, 2 violins, 1 cello, 1 doublebass. Foreign Sce: Excerpts from the Suite "1848" by T.K.Polgar (3 trumpets, 2 cornets).

NICARAGUA: Shortwaves: Add YNRZ 5975kc 1kW R. Centenario, Matagalpa; YNC 5995kc 0.25kW R. Capital, Managua; YNTP 6055kc 0.5kW R. Puerto, P. Cabezas; YNVC 6075kc 0.5kW La Voz del Puerto, P. Cabezas; YNMS 6085kc 0.5kW Ondas Populares, León; YNOT 6170kc 0.5kW R. Oratorio, S. José de Cusmapa; YNTJ 9550kc 0.3kW Eco de las Brumas, Jinotega; YNOL 9640kc 15kW Ondas de Luz, Managua; YNSC 9760kc 1kW R. Centauro, Managua – YNTT 9710kc 0.5kW R. Corporación, Managua.

NORWAY: R. Norway: Schedule March/April *1966*: 03.00–04.30 on **9550**, **9610**, 11850kc, 07.45–08.15 on 9610, **11850**, **15175**, **17825**, 21730kc, 11.00–12.30 on 11850, **15175**, **17825**, 21730, 25900kc, 13.00–14.30 on 11850, **15175**, **17825**, **21730**, 25900kc, 14.50–16.30 on 9610, **11850**, 15175, 17825, 21730kc, 17.00–18.30 on **11850**, 15175, **17825**, **21730**kc, 19.00–20.30 on 11850, **15175**, **17825**, **21730**kc, 21.00–22.30 on 6185, **9610**, **11850**, **15175**kc, 23.00–00.30 on **6185**, **9610**, **11850**kc. Tromsö sw-tr(10kW) carries the entire Home Sce. on 11735kc.

SOUTH AFRICA: English Sce: Add Portuguese Tues 20.20–20.40 & Greek Tues 20.40–21.00 on mw, sw+FM. Afrikaans Sce: Add German Thurs 20.20–20.40 & Italian Thurs 20.40–21.00 on mw, sw+FM.

SWITZERLAND: Red Cross tests in 1966: Jan. 10, 12, 14; March 21, 23, 25; May 9, 11, 13; July 4, 6, 8; Sept. 19, 21, 23; Nov. 21, 23, 25th.

U.S.S.R: R. Kiev: English: *To Europe (Mon & Thurs): 19.00–19.30* on 6020/9640kc, 22.30–23.00 on 1241kc. To No. America (Tues & Fri): 00.30–01.00 on 7120/7140/7280/7310/7330/9680kc, 04.30–05.00 on 7180/7290/7310/7330kc – **Ukrainian:** To Europe: 16.30–17.00 on 6020/7380/9590kc, 18.00–18.30 on 6020/7280/7330kc, 19.00–19.30 on 6020/9640kc, 20.30–21.00 on 6020/7280kc, 22.00–24.00 on 1241kc. To No. America: 22.30–23.00 on 7120/7140/7150/7170/7280/7310/9680kc, 23.30–24.00 on 6000/7120/7140/7280/7310/7330/9680kc, 03.30–04.00 on 7180/7290/7310/7330kc.

Continued page 304

CALL SIGN ALLOCATIONS

(continued from page 76)

YKA-YKZ	Syria	2AA-2ZZ	U.K.	5NA-5OZ	Nigeria	6CA-6CZ	Syria	8SA-8SZ	Sweden
YLA-YLZ	USSR (Latvia)	3AA-3AZ	Monaco	5PA-5QZ	Denmark	6DA-6JZ	Mexico	8TA-8YZ	India
YMA-YMZ	Turkey	3BA-3FZ	Canada	5RA-5SZ	Malagasy	6KA-6NZ	Korea Rep.	8ZA-8ZZ	Saudi Arabia
YNA-YNZ	Nicaragua	3GA-3GZ	Chile	5TA-5TZ	Mauritania	6OA-6OZ	Somalia	9AA-9AZ	San Marino
YOA-YRZ	Rumania	3HA-3UZ	China	5UA-5UZ	Niger	6PA-6SZ	Pakistan	9BA-9DZ	Iran
YSA-YSZ	El Salvador	3VA-3VZ	Tunisia	5VA-5VZ	Togo	6TA-6UZ	Sudan	9EA-9FZ	Ethiopia
YTA-YUZ	Yugoslavia	3WA-3WZ	Vietnam	5WA-5WZ	We. Samoa	6VA-6WZ	Senegal	9GA-9GZ	Ghana
YVA-YYZ	Venezuela	3XA-3XZ	Guinea	5XA-5XZ	Uganda	6XA-6XZ	Malagasy	9HA-9JZ	Not allocated
YZA-YZZ	Yugoslavia	3YA-3YZ	Norway	5YA-5ZZ	Kenya	6YA-6YZ	Jamaica	9KA-9KZ	Kuwait
ZAA-ZAZ	Albania	3ZA-3ZZ	Poland	4XA-4XZ	Israel	6ZA-6ZZ	Not allocated	9LA-9LZ	Sierra Leone
ZBA-ZJZ	British overseas terr.	4AA-4CZ	Mexico	4YA-4YZ	Int. Civil Aviation Org.	7AA-7IZ	Indonesia	9MA-9MZ	Malaysia
		4DA-4IZ	Philippines			7JA-7NZ	Japan	9NA-9NZ	Nepal
ZKA-ZMZ	New Zealand	4JA-4LZ	USSR	4ZA-4ZZ	Israel	7OA-7QZ	Not allocated	9OA-9TZ	Congo (Leopoldville)
ZNA-ZOZ	British overseas terr.	4MA-4MZ	Venezuela	5AA-5AZ	Libya	7RA-7RZ	Algeria		
		4NA-4OZ	Yugoslavia	5BA-5BZ	Cyprus	7SA-7SZ	Sweden	9UA-9UZ	Burundi
ZPA-ZPZ	Paraguay	4PA-4SZ	Ceylon	5CA-5GZ	Morocco	7TA-7YZ	Algeria	9VA-9WZ	Not allocated
ZQA-ZQZ	British overseas terr	4TA-4TZ	Peru	5HA-5IZ	Tanzania	7ZA-7ZZ	Saudi Arabia	9XA-9XZ	Rwanda Rep.
		4UA-4UZ	U.N.	5JA-5KZ	Colombia	8AA-8IZ	Indonesia	9YA-9ZZ	Not allocated
ZRA-ZUZ	So. Africa	4VA-4VZ	Haiti	5LA-5MZ	Liberia	8JA-8NZ	Japan	[1] and Terr. under mandate U.N.	
ZVA-ZZZ	Brazil	4WA-4WZ	Yemen	6AA-6BZ	UAR	8OA-8RZ	Not allocated		

WORLD TELEVISION

CHARACTERISTICS OF TELEVISION SYSTEMS
(As indicated in C.C.I.R. Report 308, Xth Plenary Assembly Geneva, 1963)

System	Number of lines	Channel width Mc	Vision bandwidth Mc	Vision/sound separation Mc	Vestigial side-band Mc	Vision modulation	Sound modulation
A	405	5	3	−3,5	0,75	Pos	AM
B	625	7	5	+5.5	0.75	Nég	FM
C	625	7	5	+5.5	0.75	Pos	AM
D	625	8	6	+6.5	0.75	Nég	FM
E	819	14	10	±11.15	2	Pos	AM
F	819	7	5	+5.5	0.75	Pos	AM
G	625	8	5	+5.5	0.75	Nég	FM
H	625	8	5	+5.5	1.25	Nég	FM
I	625	8	5.5	+6	1.25	Nég	FM
K	625	8	6	+6.5	0.75	Nég	FM
L	625	8	6	+6.5	1.25	Pos	AM
M	525	6	4.2	+4.5	0.75	Nég	FM

Note: For all the stations the field repetition frequency is 50 per second.

United States of America; System M 525 lines.

ch	Mc	ch	Mc	ch	Mc
A-2	55.25/ 59.75	A-6	83.25/ 87.75	A-10	193.25/197.75
A-3	61.25/ 65.75	A-7	175.25/179.75	A-11	199.25/203.75
A-4	67.25/ 71.75	A-8	181.25/185.75	A-12	205.25/209.75
A-5	77.25/ 81.75	A-9	187.25/191.75	A-13	211.25/215.75

United Kingdom (UK): System A 405 lines.

ch	Mc	ch	Mc	ch	Mc
B-1	45.00/ 41.50	B-6	179.75/176.25	B-11	204.75/201.25
B-2	51.75/ 48.25	B-7	184.75/181.25	B-12	209.75/206.25
B-3	56.75/ 53.25	B-8	189.75/186.25	B-13	214.75/211.25
B-4	61.75/ 58.25	B-9	194.75/191.25	B-14	219.75/216.25
B-5	66.75/ 63.25	B-10	199.75/196.25		

Ireland: System I 625 lines & System A 405 lines.

ch	Mc	ch	Mc	ch	Mc
IB	53.75/ 59.75	IF	191.25/197.25	IJ	215.25/221.25
ID	175.25/181.25	IH	207.25/213.25		

Continental Europe (excl. France, Monaco, Italy and OIRT members): System B 625 lines.

ch	Mc	ch	Mc	ch	Mc
E-2	48.25/ 53.75	E-5	175.25/180.75	E-9	203.25/208.75
E-2A	49.75/ 55.25	E-6	182.25/187.75	E-10	210.25/215.75
E-3	55.25/ 60.75	E-7	189.25/194.75	E-11	217.25/222.75
E-4	62.25/ 67.75	E-8	196.25/201.75	E-12	224.75/229.75

France, Monaco: System E 819 lines.

ch	Mc	ch	Mc	ch	Mc
F-2	52.40/ 41.25	F-7	177.15/188.30	F-10	199.70/188.55
F-4	65.55/ 54.40	F-8A	185.25/174.10	F-11	203.45/214.60
F-5	164.00/175.15	F-8	186.55/175.40	F-12	212.85/201.70
F-6	173.40/162.25	F-9	190.30/201.45		

Italy: System B 625 lines.

ch	Mc	ch	Mc	ch	Mc
A	53.75/ 59.25	D	175.25/180.85	G	201.25/206.75
B	62.25/ 67.75	E	183.75/189.25	H	210.25/215.75
C	82.25/ 87.75	F	192.25/197.75	H1	217.25/222.75

USSR and OIRT members (R) (exc. German Democratic Republic): System D 625 lines.

ch	Mc	ch	Mc	ch	Mc
I	49.75/ 56.25	V	93.25/ 99.75	IX	199.25/205.75
II	59.25/ 65.75	VI	175.25/181.75	X	207.25/213.75
III	77.25/ 83.75	VII	183.25/189.75	XI	215.25/221.75
IV	85.25/ 91.75	VIII	191.25/197.75	XII	223.25/229.75

Morocco: System B 625 lines

ch	Mc	ch	Mc	ch	Mc
4	163.25/168.75	7	187.25/192.75	9	203.25/208.75
5	171.25/176.75	8	195.25/200.75	10	211.25/216.75
6	179.25/184.75				

Australia: System B 625 lines.

ch	Mc	ch	Mc	ch	Mc
0	46.25/ 51.75	5	102.25/107.75	8	189.25/194.75
1	57.25/ 62.75	5A	138.25/143.75	9	196.25/201.75
2	64.25/ 69.75	6	175.25/180.75	10	209.25/214.75
3	86.25/ 91.75	7	182.25/187.75	11	216.25/221.75
4	95.25/100.75				

New Zealand (NZ): System B 625 lines.

ch	Mc	ch	Mc	ch	Mc
1	45.25/ 50.75	4	175.25/180.75	7	196.25/201.75
2	55.25/ 60.75	5	182.25/187.75	8	203.25/208.75
3	62.25/ 67.75	6	189.25/194.75	9	210.25/215.75

Japan: System M 525 lines.

ch	Mc	ch	Mc	ch	Mc
J-1	91.25/ 95.75	J-5	177.25/181.75	J-9	199.25/203.75
J-2	97.25/101.75	J-6	183.25/187.75	J-10	205.25/209.75
J-3	103.25/107.75	J-7	189.25/193.75	J-11	211.25/215.75
J-4	171.25/175.75	J-8	193.25/197.75	J-12	217.25/221.75

Television on VHF/UHF (Band IV/V) Europe and Africa.
VHF/UHF television systems for Band IV/V adopted by the European Broadcasting Conference Stockholm 1961 and by the African Broadcasting Conference, Geneva 1963 are 625-lines systems only. These can be grouped into 5 categories, here called Standards G to L:

Standard	Video Band-width (Mc)	Picture/Sound Separation (Mc)	Vestigial Sideband (Mc)	Picture modulation	Sound modulation	Frequency of chrominance subcarrier (Mc)	Power ratio picture/sound
G	5	5.5	0.75	Neg	FM	4.43	5:1
H	5	5.5	1.25	Neg	FM	4.43	5:1
I	5.5	6	1.25	Neg	FM	4.43	5:1
K	6	6.5	0.75	Neg	FM	4.43	5:1
L	6	6.5	1.25	Pos	AM	4.43	8:1

ch	Vision Mc	ch	Vision Mc	ch	Vision Mc	ch	Vision Mc
21	471.25	33	567.25	45	663.25	57	759.25
22	479.25	34	575.25	46	671.25	58	767.25
23	487.25	35	583.25	47	679.25	59	775.25
24	495.25	36	591.25	48	687.25	60	783.25
25	503.25	37	599.25	49	695.25	61	791.25
26	511.25	38	607.25	50	703.25	62	799.25
27	519.25	39	615.25	51	711.25	63	807.25
28	527.25	40	623.25	52	719.25	64	815.25
29	535.25	41	631.25	53	727.25	65	823.25
30	543.25	42	639.25	54	735.25	66	831.25
31	551.25	43	647.25	55	743.25	67	839.25
32	559.25	44	655.25	56	751.25	68	847.25

The sound carrier frequency for each channel can be determined by adding the appropriate figure to the vision carrer frequency given above (5.5Mc for systems G, H; 6Mc for system I and 6.5Mc for systems K, L). In We.Germany ch38 is reserved for aero-navigaton.

UHF Channels: USA.

ch	Mc	ch	Mc	ch	Mc
A-14	471.25/475.75	A-38	615.25/619.75	A-62	759.25/763.75
A-15	477.25/481.75	A-39	621.25/625.75	A-63	765.25/769.75
A-16	483.25/487.75	A-40	627.25/631.75	A-64	771.25/775.75
A-17	489.25/493.75	A-41	633.25/637.75	A-65	777.25/781.75
A-18	495.25/499.75	A-42	639.25/643.75	A-66	783.25/787.75
A-19	501.25/505.75	A-43	645.25/649.75	A-67	789.25/793.75
A-20	507.25/511.75	A-44	651.25/655.75	A-68	795.25/799.75
A-21	513.25/517.75	A-45	657.25/661.75	A-69	801.25/805.75
A-22	519.25/523.75	A-46	663.25/667.75	A-70	807.25/811.75
A-23	525.25/529.75	A-47	669.25/673.75	A-71	813.25/817.75
A-24	531.25/535.75	A-48	675.25/679.75	A-72	819.25/823.75
A-25	537.25/541.75	A-49	681.25/685.75	A-73	825.25/829.75
A-26	543.25/547.75	A-50	687.25/691.75	A-74	831.25/835.75
A-27	549.25/553.75	A-51	693.25/697.75	A-75	837.25/841.75
A-28	555.25/559.75	A-52	699.25/703.75	A-76	843.25/847.75
A-29	561.25/565.75	A-53	705.25/709.75	A-77	849.25/853.75
A-30	567.25/571.75	A-54	711.25/715.75	A-78	855.25/859.75
A-31	573.25/577.75	A-55	717.25/721.75	A-79	861.25/865.75
A-32	579.25/583.75	A-56	723.25/727.75	A-80	867.25/871.75
A-33	585.25/589.75	A-57	729.25/733.75	A-81	873.25/877.75
A-34	591.25/595.75	A-58	735.25/739.75	A-82	879.25/883.75
A-35	597.25/601.75	A-59	741.25/745.75	A-83	885.25/889.75
A-36	603.25/607.75	A-60	747.25/751.75		
A-37	609.25/613.75	A-61	753.25/757.75		

UHF Channels: Japan.

ch	Mc	ch	Mc	ch	Mc
45	663.25/667.75	51	699.25/703.75	57	735.25/739.75
46	669.25/673.75	52	705.25/709.75	58	741.25/745.75
47	675.25/679.75	53	711.25/715.75	59	747.25/751.75
48	681.25/685.75	54	717.25/721.75	60	753.25/757.75
49	687.25/691.75	55	723.25/727.75	61	759.25/763.75
50	693.25/697.75	56	729.25/733.75	62	765.25/769.75

EUROPE

ALBANIA

RADIODIFFUSION TELEVISION ALBANAISE

Addr: Rue Ismail Quemal, Tirana. **L.P:** see radio.
Station: chR2 0.02kW – Exp. tr's three times a week at 18.00–21.00.

AUSTRIA

ÖSTERREICHISCHER RUNDFUNK (Gesellschaft m.b.H.)

Fi: By license payments, adv – **Addr:** Television Dept, Schellinggasse 4, Wien I. **Te:** 523627. **Cable:** Fernsehen – **Studios:** Maxingstr. 13a, Wien XIII; Singrienergasse 21, Wien XII; Columbia-studio, Rothgasse 9, Wien I – **L.P:** Dir. Gen: J. Scheidl. Dir. TV: G. Freund. Vice Dir. Gen: Ing. W. Füchsl.

Stations:	ch	kW(W)		ch	kW(W)
Jauerling	E2	60/12H	Pyramidenkogel	E10	30/6H
Patscherkofel	E4	60/12H	Sonnwendstein	E10	5/1H
Kahlenberg I	E5	60/12H	H. Kaibling	E11	10/2
Pfänder	E5	80/16H	Jauerling	E21	800/160H
Lichtenberg I	E6	100/20H	Schöckl II*	E23	20/4H
Schöckl	E7	60/12H	Kahlenberg II	E24	400/80H
Gaisberg	E8	60/12H	Lichtenberg	E43	800/160H
Mugl	E9	20/4H	+48 low power	freq. changers.	

D.Prgr: Sun, Wed 16.00–21.30(approx), other days 18.00–21.30 (approx) – * = Tec. Testprgr's: Tues, Fri, Sat 18.00–20.30.
AKG, Austria: delivered studio equip (recorders, microphones).
Ampex Videotape, USA – Telefunken AG, Germany: delivered 10kW tr's (Jauerling, Pfänder), 2kW tr. (Pyramidenkogel); studio equip. (recorders, microphones).

BELGIUM

RADIODIFFUSION-TELEVISION BELGE (RTB) – BELGISCHE RADIO EN TELEVISIE (BRT) (Gov.)

Fi: By state grant-in-aids – **Addr:** RTB or BRT, Place Eugene Flagey 18, Brussels 5. **Te:** French and Dutch 496050. **Cable:** RTB or BRT-TV. **L.P:** Dir. French Prgrs: L. P. Kammans. Dir. Dutch Prgrs: B. Janssens.

French Prgr: Def. 625

Ougrée	chE 3	100/25 kW/H	
Wavre	chE 8	100/25 kW/H	
Anlier	chE11	10/2.5kW/H	

+5 satellites.

Dutch Prgr: Def. 625

Wavre	chE10	100/25 kW/H
Aalter	chE2	100/25 kW/H

+2 satellites.

D. Prgr: French: W 17.30–22.00. Sun 14.00–17.45, 19.30–22.30. **School Prgr:** Mon, Tues, Thurs, Fri 13.15–14.00 – **Dutch:** 18.00–21.45 (or 22.00). **School Prgr:** Mon, Tues, Thurs 13.05–14.00.

BULGARIA

BULGARIAN TELEVISION (Gov.)

Addr: Todor Strashimirov 2, Sofia. **Te:** 4-63-21. **Cable:** TV Bulgar. **Telex:** 581. **L.P:** Dir: V. Baev. Dep. Dir: L. Bozhev. Techn. Dir: N. Stanev. Head of Foreign Rel. Dept: Ch. Emanuilov.
Station: Sofia chR7 10/5kW – **D.Prgr:** W exc. Tues 16.00–20.30. Sun 15.00–20.30.
Pye T.V.T, G.B: Tr, ant, studio equip. OBV.

CZECHOSLOVAKIA

CESKOSLOVENSKÁ TELEVIZE

Ad: Approx. 20 min. weekly – **Addr:** Ceskoslovenskà televize, nàm M. Gorkého 29, Praha 1. **Te:** 221247. **Cable:** Televize. **Telex:** 0400. **L.P:** Dir. Gen: J. Pelikán. Techn. & Economy Dir: J. Beneš. Dir. For. Rel: L. Kubiček. Dir. Prgr: Z. Noháč. Dir. Telexpart (Selling & Buying films): J. Khun.

Stations: Ch. OIRT. Polarisation: H.

Praha	ch	kW		Ostrava	ch	kW	
Stredni Cechy	1	30/6	H	Severni Morava	1	10/2	H
Severni Cechy	12	8/1.6	V	**Bratislava**			
Zàpadni Cechy	10	10/2	H	Zàpadni Slovensko	2	10/2	H
Jizni Cechy	2	10/2	H	Stredni Slovensko	7	10/2	H
Vychodni Cechy	6	10/2	H	Vychodni Slovensko	6	10/2	V
Brno							
Jizni Morava	9	10/2	H				

D.Prgr: Mon 16.40–21.15; Tues 08.00–10.00, 16.45–21.00; Wed 07.45–10.00, 14.00–21.45; Thurs 08.00–10.00, 15.25–22.00; Fri 07.00–10.00, 17.00–21.30; Sat 09.00–10.00, 14.00–22.30; Sun 08.00–11.00, 13.00–21.30.

DENMARK

RADIO DENMARK (Gov.)

Fi: By license payments – **Addr:** Television Service, R. Denmark, Radiohouse, Rosenørnsalle 22, Copenhagen V. **Te:** 350647. **Cable:** Danradio – **L.P:** Dir. Prgr: Jens Fr. Lawaetz. Dir. Entertainment: Svend Pedersen. Dir. Tec: P. Hansen. Dir. Actualities Dept: Hans Jørgen Jensen. Dir. Cult. Dept: L. Bindsløv. Dir. Drama: Felix Nørgaard.
Stations: chE, Pol. H exc. those marked * V.

	ch	kW		ch	kW		ch	kW
Funen	3	10/3	Vejle*	5	0.05	Frederikshavn*	8	0.05
Copenhagen	4	10/3	So. Seeland	6	60/20	Kolding*	9	0.1
Ålborg	5	10/3	So. Jutland	7	60/20	We. Jutland	10	60/2
Bornholm	5	10/3	Århus	8	10/3			

D.Prgr: 19.00–21.00 (approx) – Childrens h: Mon, Tues 16.15–17.00; Thurs, Fri 14.15–15.00; Sat 16.00–17.00. Test tr's normally at the following times, if no regular prgr's: Mon–Fri 08.00–09.00, 12.30–16.30(Wed 15.00), Sat 08.00–14.00.
AKG, Austria: delivered studio equip. (recorders, microphones) – Ampex Videotape, USA – EMI Electronics, GB: Studio equipm. – The Marconi Company, GB. various tr's – PYE Ltd., GB: Studio equipm. OBV.

FINLAND

OY YLEISRADIO AB (Gov.)

Fi: By license fees and rental income.
ADDR: Prgr. 1: Helsinki, Pasila. **Te:** 418811. **Cable:** Yletv. **Telex:** 12849 – Prgr. 2: (from 1/1-66): Tampere, Hämeenkatu 22C. **Te:** 30330. **L.P:** Head of TV Prgr. 1: V. Zilliacus. Dir. of TV Prgr. 2: H. Leminen. For other leaders: see radio.

Prgr. 1.

Station	ch	kW	Po	Station	ch	kW	Po
Eurajoki	11	5	H	Lapua	5	80	H
Helsinki	6	10	H	Mikkeli	6	10	V
Helsinki UHF	24	25	H	Oulu	7	60	V
Joutseno	10	10	H	Pihtipudas	10	1.5	H
Jyväskylä	11	10	H	Taivalkoski	2	15	V
Kajaani	4	15	H	Tammela	10	8	H
Kerimäki	9	10	H	Tampere	8	80	H
Koli	8	5	H	Tervola	3	20	H
Kuopio	7	45	H	Turku	7	45	H
Lahti	9	40	H	Ylivieska	9	60	H

+23 low power repeater st's.

D.Prgr. W 07.10–07.40, 15.30–16.30, 17.30–19.35(Mon, Wed), 15.30–17.00, 17.30–20.45(Tues); 16.00–16.30, 17.30–19.35. 20.05–21.30 (Thurs); 15.30–17.00, 17.30–19.35(Fri); 14.00–17.00, 17.30–19.35(Sat); every other Sat in addition 20.35–22.00. Sun 08.00–09.00 (+ every other Sun 10.00–11.00), 13.00–14.30, 15.30–16.30, 17.30–19.35.

Prgr. 2.

Station	ch	kW	Po	Station	ch	kW	Po
Helsinki	8	10	H	Turku	9	10	V
Tampere	2	10	V				

D.Prgr. W 16.15–19.35 (Mon, Wed, Fri, Sat); 16.15–20.35(Tues); 16.15–17.30, 19.15–20.00(Thurs). Sun 16.30–19.35.
RCA, United States, CSF, France, Philips, Holland: TV tr's – Fernseh GmbH Germany (picture equip) – Telefunken, Germany (sound equip) – Standard Electric Co. G.B, Mole & Richardson, G.B. AEG, Germany (lighting equip) – Arnold & Richter, Germany (film cameras) – Ampex Videotape, RCA United States (videotape machines).

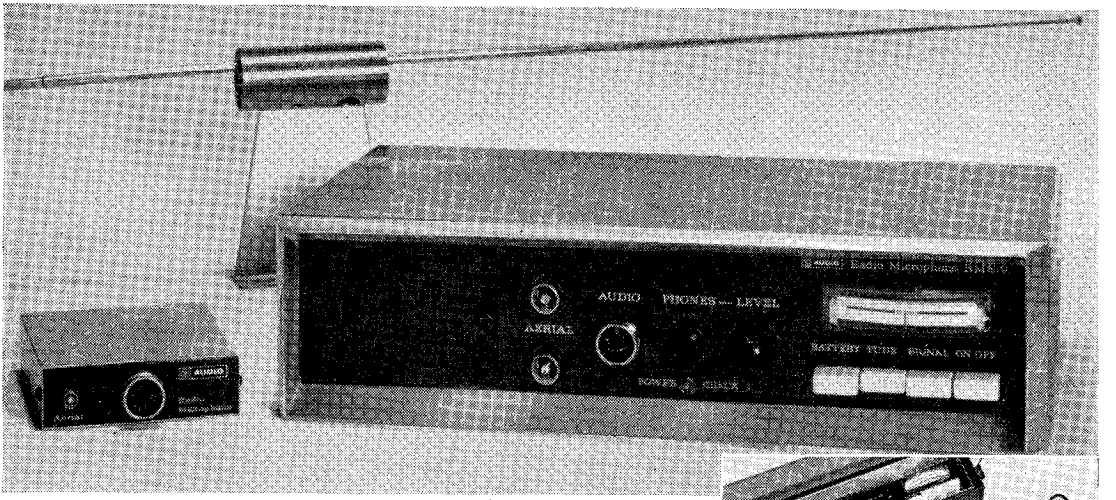
FRANCE

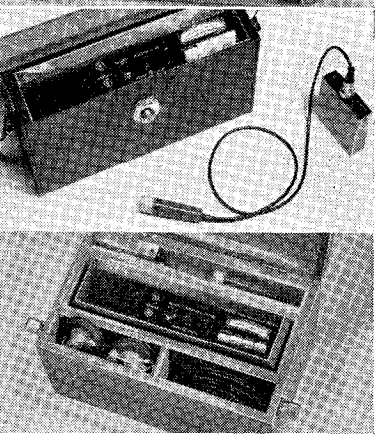
OFFICE DE RADIODIFFUSION-TELEVISION FRANÇAISE (Gov.)

ADDR: 116, Avenue du President Kennedy, Paris 16 – **L.P:** see Radio.
1st. Prgr.(819 lines):
Principal stations (819 lines): Audio powers 1/4 of Vision powers indicated – * = Reduced power (temporary or exp. tr.)

Location	chF	kW	Fol.	Location	chF	kW	Pol.
1) Bastia	2	3	V	14) Metz	6	10	H
2) Caen	2	20	H	15) St. Raphael	6	3	V
3) Limoges	2	20	H	16) Gex	7	3	V
4) Troyes	2	20	H	17) Le Havre	7	0.5	H
5) Ajaccio	4	0.5	H	18) Nancy	7	0.05	V
6) Besancon	4	3	V	19) Niort	7	20	V
7) Carcassonne	4	20	V	20) Lille	8A	20	H
8) Nantes	4	20	V	21) Paris	8A	20	H
9) Reims	5	10	V	22) Brest	8	10	H
10) Rennes	5	20	H	23) Marseille	8	20	H
11) Strasbourg	5	3	H	24) Mulhouse	8	20	H
12) Toulouse	10	0.05	H	25) Bourges	9	20	H
13) Clermont Fd.	6	10	V	26) Bordeaux	10	0.5	H

radio-microphone systems





for a dependable wire-free link between microphone and amplifier

A number of radio microphone systems designed and made by Audio Ltd. are already in regular use in British and European TV Stations. Not only have problems of size both in transmitter and receiver been completely overcome, but standards of reliability and performance are of such a high order that entirely new fields of sound application are being opened up as a consequence. Radio Microphones by Audio Ltd. are characterised by complete stability, rugged construction, exceptional quality of sound and total freedom of movement for the user. The circuitry used enables the transmitter and receiver to be supplied in conformity with official governmental requirements in any part of the world. Good delivery is offered. Enquiries invited.

- Supplied on any one frequency from 27 to 200 Mc/s
- Crystal controlled transmitter and receiver ensure stability
- Built-in checks for tuning and transmitter power
- Low distortion A.F limiter in transmitter
- 2 di-pole aerials with integrated R.F amplifiers
- Headphone monitoring
- Transmitter size – 78 mm × 24 mm × 103 mm long with plug

AUDIO LIMITED 46, PENTONVILLE ROAD LONDON. N.1. *EUSton 26/2*

Location	chF	kW	Pol.	Location	chF	kW	Pol.
27) Dijon	10	0.5	V	32) Aurillac	11	0.5	V
28) Grenoble	10	0.05	H	33) Le Mans	12	10	V
29) Rouen	10	10	H	34) Lyon	12	20	H
30) Toulouse	5	2	H	35) Perpignan	12	0.05*	H
31) Amiens	11	20	V				

Number of low powered relay st's (from 50 to 500 W):
Region of Bordeaux: 31 – Region of Lille: 7 – Region of Limoges: 27 – Region of Lyon: 164 – Region of Marseille: 46 – Region of Nancy: 39 – Region of Paris: 20 – Region of Rennes: 12 – Region of Strasbourg: 5 – Region of Toulouse: 101.
D.Prgr: Sun 08.00–22.30. W 11.30–12.30, 17.25(Thurs 15.00. Sat 16.00)–22.30. School Prgr's: 08.30–09.30, 13.05–14.35. **Reg. Prgr's:** W 18.25–18.40. Sat also 12.30–13.00.

Second Prgr. (625 lines): Pol=H
Audio powers 1/4 of vision powers indicated.

Station	ch	kW(ERP)	Station	ch	kW(ERP)
Toulouse	21	20	Rouen	33	2
Mulhouse	21	50	Metz	34	50
Brest	21	50	Toulouse	39	0.45
Paris	22	20	Lyon	40	50
Marseille	23	50	Le Havre	43	10
Mezières	23	20	Reims	46	50
Troyes	24	50	Longwy	47	2
Caen	25	50	Toulon	48	2
Perpignan	25	0.45	Limoges	50	50
Lille	27	50	Grenoble	50	50
Clermont-F.	28	20	Strasbourg	56	50
Saint-Raphael	28	20	Bordeaux	57	50
Nantes	29	50	Lyon	58	2
Nancy	29	20	Nice	58	0.45
Saint Etienne	30	0.45	Hyeres	59	2

D.Prgr: Sun 13.45–22.00. Mon-Fri 19.00–21.45. Sat 18.00–22.00.
Ampex Videotape, USA – Wilh Franz KG, Germany: EMT studio equip.

GERMANY

GERMAN FEDERAL REPUBLIC
ARBEITSGEMEINSCHAFT DER ÖFFENTLICH-RECHTLICHEN RUNDFUNKANSTALTEN DER BUNDESREPUBLIK DEUTSCHLAND (ARD)

German Television Prgr. Coordination: 8 München 23. Leopoldstrasse 10. **Te:** 36561. **Telex:** 05-22480 – **L.P:** Prgr. Dir. German Television: L. Hartmann. Deputy Dir: R. E. Lembke. Press: O. Meitzner. Eurovision Office: Dr. R. Dill – Fernsehbeirat: Chmn: H. Müller-Osterode, 3406 Bovenden/Göttingen, Erlenweg 2.
A common prgr. is being broadc. throughout Germany under the title "Deutsches Fernsehen". Each of the organizations participates in the production of this prgr. In addition reg. broadc's are transmitted Some stations broadcast a third TV-prgr.
Community Television Prgr's (Deutsches Fernsehen): Mon–Fri 15.45–17.05, 19.00–22.00. Sat 13.15–17.30, 19.00–22.30. Sun 10.00–22.00. Closing times are approx.

Reg. Prgr's: W 17.05(Sat 17.30)–19.00.

Third TV-Prgr's: Hessischer Rundfunk: Tues-Thurs 18.30–21.30 – **Bayerischer Rundfunk:** W 18.00–21.30 – **Norddeutscher Rundfunk, R. Bremen, Sender Freies Berlin** D 18.00–20.30 (approx.)

BAYERISCHER RUNDFUNK (Anstalt des öffentlichen Rechts)
FI: By license payments – **AD:** W max. 12 min.
ADDR: Bayerischer Rundfunk, 8 München 2, Rundfunkplatz 1 – **Studios:** 8 München-Freimann and 8043 Unterföhring – **L.P:** Intendant: Chr. Wallenreiter, Dir. TV: Dr. Cl. Münster. Dir. Stud. Prog: Dr. H. Oeller. Dir. Adm: H. Spies. Dir. Tec: Dr. F. Daser.

Stations	ch E	kW		ch E	kW
Grünten	2	100/20H	Wendelstein	10	100/20H
Kreuzberg	3	100/20V	Würzberg	10	2/0.4H
Ochsenkopf	4	100/20V	Hohenpeissenb.	25	10/2H
Dillberg	6	100/20H	Hoher Bogen	55	225/45H
Brotjacklriegel	7	100/10H	+44 low power relay st's		

Testtr's: 09.00–11.00, 12.00–15.50. Sat 12.00–15.50.

Third Prgr: W 18.00–21.30.
Augsburg ch44 500/100kW H – Bayreuth ch54 85/17kW H – München ch56 250/50kW H – Bamberg ch56 85/17kW H – Donaueschingen ch57 85/17kW H – Landshut ch58 55/11kW H – Nürnberg ch59 250/50kW H

Pub: "Pressedienst – Studienprogramm" (Weekly).
FIAR Sp. A, Italy: TV repeaters, antennas, amplifiers to several st's – Ampex Videotape. USA – Pye TVT, GB: Studio equip, O.B.V.

HESSISCHER RUNDFUNK (Anstalt des öffentlichen Rechts)
ADDR: Postfach 3294, 6000 Frankfurt (Main). – **L.P:** Dir. Prgr: H. O. Grünefeldt. Entertainment: A. Neve. News: W. Hanke. Play: H. Grund. Prod: H. Uhlich. Afternoon prgr, Youth prgr, adult educ: J. Göhlen.
Stations: Feldberg ch E8 100/10kW H – Meissner ch E7 100/10kW H – Biedenkopf ch E2 30/2kW H d – Hardberg ch E5 3/0.1kW H d – Rimberg ch E57 400/20kW.
+48 low power freq. changers.
D.Prgr: 16.00–21.30. (Sat also 13.30–16.00, Sun also 10.00–16.00).
Test-Tr's: W 09.30–11.00, 12.00–15.50 – **AD:** Mon–Fri 17.15–18.00, Sat 17.30–18.00, W 18.20–18.55.
Third Prgr: "Hessisches Fernsehprogramm" Tues, Wed, Thurs 18.30–21.30 – Tr's (Deutsche Bundespost): Kassel ch42 200/40kW – Feldberg ch54 500/100kW.

RADIO BREMEN (Anstalt des öffentlichen Rechts)
Fi: By license payments – **Ad:** D (exc. Sun) max 20 min – **Addr:** Heinrich-Hertz Str. 13, Bremen – **L.P:** See radio – **Stations:** Bremen ch E22 100/20W H – Bremerhaven ch E5 0.16/0.03kW V – **D.Prgr:** Mon–Fri 16.00–17.15, 19.00–21.30 Sun 10.00–23.00 – **Reg. Prgr:** W 17.15(Sat 17.30)–19.00.
Special Prgr: Non–Fri 09.00–12.00.
Third Prgr: Bremen ch E42 500/100kW H – **D.Prgr:** 18.00–20.30 (approx).
Ampex Videotape, USA.

NDR-FERNSEHEN
Addr: Hamburg-Lokstedt Gazellenkamp 57. **Te:** 441931 – **L.P:** Intendant: G. Schröder. Dir. Prgr: Dr. H. Arnold. Presse, Information, Ausland: M. Jenke. Zeitgeschehen: J. Fest. Reg. Prgr's: E. Herzig. Tageschau: H. J. Reiche. Fernsehspiele: E. Monk. Musik: H. Sielmann.

Stations	ch	kW	Pol.		ch	kW	Pol.
Oldenburg/Steink.	2	100	H	Lingen	41	400	H
Flensburg	4	50	H	Dannenberg	43	250	H
Kiel	5	5	H	Bungsberg	50	260	H
Hannover	8	5	H	Osnabrück	50	12.5	H
Hamburg	9	100	H	Aurich	53	230	H
Heide	10	25	V	Oldenburg/Steink.	55	400	H
Harz	10	100	H	+49 low power freq. changers.			

D.Prgr: Test-tr's: W 12.00–15.30(Sat approx. 13.00).
Prgr's: W 09.00–12.00, 15.45–17.05 (Sat 13.00–17.30), D 19.00–20.00 – **Reg. Prgr:** W 17.05(Sat 17.30)–18.59.
Third Prgr: 18.00–20.30(approx).
Hamburg ch40 250/50kW H – Hannover ch44 500/100kW H – Schleswig ch45 100/20kW H – Nibüll ch60 200/40kW H.
Telefunken AG, Germany, delivered tr's: 1×1kW, 1×2kW (Hannover), 10kW (Flensburg), further 2×100kW tr's – Ampex Videotape, USA – Pye T.V.T, GB: Studio equip.

SAARLÄNDISCHER RUNDFUNK-FERNSEHEN
Fi: By license payments and adv – **Ad:** 17.05–18.59.
Addr: 66 Saarbrücken, Postfach 1050 – **L.P:** see radio.
Station: Göttelborner Höhe ch2 100/20kW V.
+12 low powers satellites.
D.Prgr: Reg. Prgr: Mon–Fri: 11.30–12.30, 17.05–18.59. Sat: 17.30–18.59 – "Deutsches Fernsehen": 3% annual participation. Ampex Videotape, USA.

SENDER FREIES BERLIN
Fi: By license payments – **Addr:** Fernsehen, Masurenallee 8/14, 1 Berlin 19. **Te:** 92031. **Cable:** Sender Freies Berlin – **L.P:** see radio.
Station: Berlin chE7 100/10kW – **D.Prgr:** W 09.00–12.00, 16.00–17.15, (Sat 13.30–17.50), 19.00–22.00 (approx). Sun 09.00–09.50, 11.00–17.00, 19.00–22.00 (approx.) – **Reg. Prgr:** 15.25–16.00, 17.30–19.00. Tues 17.15–17.25. Sat 08.00–08.45, 12.00–12.30.
Third Prgr. (NDR/RB/SFB): 18.00–20.30 (approx.)
Station: Berlin ch39 500/20kW H.
Ampex Videotape, USA.

SÜDDEUTSCHER RUNDFUNK FERNSEHEN
(Anstalt des öffentlichen Rechts)

Stations	ch	kW(ERP)			ch	kW(ERP)	
Heidelberg I	7	100/20kW	V	Stuttgart	11	100/20kW	H
Aalen	8	20/4kW	V	Heidelberg II	50	500/100kW	H
Waldenburg	9	100/20kW	H	+34 low power freq. changers.			

D.Prgrs: W 16.00–17.20, 19.00–21.30 (approx.) Sat 14.00–17.20 19.00–22.00(approx). Sun 10.00–22.00(approx.) – **Reg. Prgr:** Mon–Fri 17.50–18.20. **Ad:** W 17.20(Sat 17.30)–17.50, 18.20–19.00. **Test-prgrs:** W 09.00–11.00 and 12.00 to start of prgr's.
Telefunken AG, Germany: delivered 2×2kW tr's (Aalen, Waldenburg).

SÜDWESTFUNK (Anstalt des öffentlichen Rechts)
Fi: By license payments – **Ad:** W 17.30–17.50, 18.20–19.00 – **Addr:** Südwestfunk Fernsehen, Hans Bredowstr, Baden-Baden. **Te:** 761. **Cable:** Südwestfunk – **L.P:** see radio.

Stations:	chE	kW(ERP)	Pol	Stations:	chE	kW(ERP)	Pol
Raichberg	4	40/8	H	Eifel	23	20/4	H
Koblenz	6	50/10	H	Haardtkopf	25	200/40	H
Weinbiet	6	30/6	H	Wannenberg	30	5/1	H
Feldberg i Schw.	8	100/20	H	Saarburg	31	20/4	H
Hornisgr.	9	100/15	H	Grünten	43	500/100	H
Donnersberg	10	100/20	H	Marienberg	47	50/10	H

+162 low power satellites (+further 10 st's Feb. 1966).
D.Prgr: Variable. **Reg-Prgr:** 17.05–19.00.

WDR FERNSEHEN

Addr: Wallrafplatz 5, Köln. **Te:** 20701. **Cable:** WDR. **Studios:** 53 Bonn, Dahlmannstr. 14; 4 Düsseldorf, Achenbachstr. 5 – **L.P:** Dir: Dr. Hans-Joachim Lange. Dir. Third Prgr. TV: W. Höfer.
First TV-Programme: Pol: H.

Stations:	ch.	kW(ERP)		ch.E	kW(ERP)
Aachen	24	200/40	Münster	32	500/100
Bonn	5	0.5/0.1	Nordhelle	30	240/48
Kleve	46	100/20	Teutob. Wald	11	100/20
Köln	11	10/2	Wuppertal	6	0.6/0.12
Langenberg	9	100/20	plus 166 low power freq. changers.		

D.Prgr: Testtr: W 09.00–11.00, 12.00–17.00(Sat 13.00).
Reg. Prgr: W 17.30–18.15 (Sat also 13.00–13.30).
Common Prgr: W 16.00–17.00 (Sat 13.30–17.25), 19.00–at least 21.00. Sun 09.30–at least 21.00 – **Ad:** W 18.15–19.00.

Third Prgr: D 13.00–14.00, 19.00–21.00 (approx.)

Stations:	chE	kW(ERP)		Stations:	chE	kW(ERP)	
Wuppertal	42	85/17	H	Dortmund	53	500/100	H
Münster	45	250/50	H	Düsseldorf	55	500/100	H
Bonn	49	100/20	H	Aachen	58	500/100	H
Monschau	50	330/66	H				

ZWEITES DEUTSCHES FERNSEHEN

(Anstalt des öffentlichen Rechts)
(This is a second service. All prgrs are broadc. simultaneously on the stations listed below and originated at the main studios in Mainz)
Fi: By license payments – **Addr:** Mainz, Postfach 343. **Te:** 2051. **Telex:** 04-187661 – **L.P:** Dir. Gen: Prof. Dr. K. Holzamer. Dir. Prgr: J. Viehöver. Dir. Inf: W. Dietrich. Dir. Adm: Dr. F. Huch. Dir. Tec: R. Kaiser. Dir. Foreign Relations: E. P. Braun. Film Buyers: K. Brüne, H. Blank.
Stations: chE. Pol: H

	ch	kW(ERP)			ch	kW(ERP)	
Aachen	37	500/100		Höhbeck	21	500/100	
Ahrweiler	23	500/50		Hoher Bogen	28	500/100	
Amberg	37	500/100		Kaiserslautern	22	25/5	
Augsburg	23	500/100		Kassel	35	100/20	
Baden/Baden	31	330/66		Kiel	35	100/20	
Bayreuth	30	100/20		Koblenz	31	100/20	
Bamberg	24	100/20		Landshut	39	200/40	
Berlin	33	500/100		Lingen	24	500/100	
Bielefeld	33	500/100		Marienberg	21	500/100	
Bonn	26	100/20		Minden–Westf.	26	330/66	
Boppard	28	250/50		Monschau	21	330/66	
Brandenkopf	28	100/20		München	35	250/50	
Bremen	32	500/100		Münster	21	50/10	
Coburg	22	250/50		Niebüll	34	200/40	
Cuxhaven	24	330/66		Nürnberg	34	250/50	
Deggendorf	33	250/50		Ostfriesland	33	250/50	
Donaueschingen	22	100/20		Passau	30	50/10	
Donnersberg	37	330/66		Pforzheim	34	250/50	
Dortmund	25	500/100		Ravensburg	37	500/100	
Düsseldorf	29	500/100		Regensburg	21	500/100	
Eiderstedt	31	500/100		Rhön	29	500/100	
Eutin	21	500/100		Rimberg	25	500/100	
Feldberg/Ts.	34	500/100		Rottwell	35	330/66	
Flensburg	39	500/100		Saarbrücken	32	330/66	
Freiburg/Breeigau	33	500/100		Schleswig	26	100/20	
Fulda	26	200/40		Schnaitsee	26	250/50	
Grünten	28	500/100		Spessart	35	250/50	
Göttingen	21	250/50		Stuttgart	26	300/60	
Haardtkopf	35	400/80		Torfhaus	23	500/100	
Hamburg	30	500/100		Trier	37	50/10	
Hannover	24	500/100		Uelzen	27	500/100	
Heidelberg	27	500/100		Ulm	33	500/100	
Hof	23	500/100		Würzburg	25	500/100	
Hesselberg	32	100/20		Wuppertal	22	100/20	

D.Prgr: Testtr. W 10.00 until start of Prgr. **Common Prgr:** W 1815–22.30. Sat 14.50–22.30. Sun 14.00–22.30. Sport on Sat, Sun afternoon. Closing times are approx.

TRANS-TEL: German Television Transcription Company Ltd. **Addr:** Deutsche Welle, Transcription Service (Television) Cologne, Bruederstr. 1, P.O. Box 1607. **Te:** 2 03 01, **Cable:** Transtel. **Telex:** 08/881942 – **L.P:** Dir: Ch. von Chmielewski. Prgr: W. Honig. Production: H. Klemme – **Scope of Prgr:** Transcription Sce for TV films supplied by ARD (West German Regional Broadc. Companies), of ZDF (Second German TV Station), and of DIZ (German Industrial Centre) – **Stations:** Foreign TV-st's, especially those in the developing countries.

GERMANY

GERMAN DEMOCRATIC REPUBLIC

DEUTSCHER FERNSEHFUNK (Gov.)

Ad: Three times weekly after 18.00 – **Addr:** Berlin-Adlershof, Rudower Chausse 116. **Te:** 642021. **Cable:** Fernsehfunk Berlin. – **L.P:** Intendant: H. Adameck, Programm Leitung: D. Schmotz, Sendeleitung: M. Weigand.
Stations: Helpterberg chE3 6/1.2kW V – Cottbus chE4 6/1.2kW H – Berlin/Inselsberg chE5 100/20kW H – Brocken chE6 100/20kW H – Görlitz chE6 0.95/0.19kW H – Schöneck chE6 0.5/0.1kW V – Eisenhüttenstadt chE7 0.5/0.1kW H – Karl-Marx-Stadt chE8 100/20kW H – Lobenstein chE7 V – Rhinov chE9 V – Leipzig chE9 100/20kW V – Dresden chE10 100/20kW V – Schwerin chE11 100/20kW H – Frankfurt/Oder chE11 0.5/0.1kW H – Blessberg chE12 0.5/0.1kW H – Dequede chE31 500/100kW H – Berlin chE27 500/100kW H. – Blessch E31.
D.Prgr: Mon–Fri 08.50–13.00, 15.00–22.00. Sat 08.50–11.30, 13.00–23.00. Sun 08.50–22.00. Test tr's: chE27, E31 & E33.
Pye T.V.T, GB: Studio equip, OBV.

GIBRALTAR

GIBRALTAR TELEVISION (Comm.)

Addr: TV House, Wellington Front. Gibraltar. Studios: TV House, Queensway, Gibraltar. **Te:** 4671/2. **Cable:** Broadcasts – **L.P:** See radio.
Station: chE6 200/50W H – **D.Prgr:** 18.30–22.00.
The Marconi Company Ltd, GB: 1×3W tr, 1 Amplifier 50W, Ant.

GREAT BRITAIN

BRITISH BROADCASTING CORPORATION

The BBC's Television Service is an integral part of the British Broadcasting Corporation – **Addr:** Broadc. House, London W.1 – **L.P:** Dir. TV: K. Adam, C.B.E. Contr. of Prgr's: H. Wheldon, O.B.E, M.C. Chief of Prgr's BBC-1: I. M. Peacock. Chief of Prgr's BBC-2: D. Attenborough. Contr. Prgr. Sve's: I. Atkins, O.B.E. Contr. TV Adm: S. G. Williams, O.B.E. Gen. Mgr: TV Enterprises: D. G. Scuse. M.B, E. Chief Eng: T. H. Bridgewater.
BBC-1 (405 lines, VHF) * = directional aerial.

Stations	ch	kW(ERP)	Pol.	Station	ch	kW(ERP)	Pol.
Crystal Palace	1	200	V	Sutton Coldfield	4	100	V
Ashkirk	1	18.5/0.25*	V	Sandale	4	28/10*	H
Divis	1	12	H	Melvaig	4	27.4/0.45*	V
Redruth	1	10/1.2*	H	Meldrum	4	17/4*	H
Thrumster	1	7/0.25*	V	Manningtree	4	4.8/0.56*	H
Llanddona	1	5.8/0.2*	V	Haverfordwest	4	10/0.17*	H
Llandrindod				Les Platons	4	1	H
Wells	1	1.3	H	Wenvoe	5	100	V
Holme Moss	2	100	V	Orkney	5	14/4*	V
Rosemarkie	2	20/6*	H	Pontop Pike	5	17	H
No. Hessary Tor	2	15/1.5*	V	Forfar	5	5.3/0.25*	V
Swingate	2	1.4/0.04*	V	Br. Mountain	5	6.8/0.7*	V
Londonderry	2	1.5/0.5*	H	Douglas	5	2.8/0.18*	V
Kirk o'Shotts	3	100	V	Fort William	5	1.6	H
Rowridge	3	97/0.6*	V	Peterborough	5	1	H
Tacolneston	3	45/2.1*	H	Sandale	6	70/1.5*	H
Skriaig	3	11.7/0.3*	H	Moel-y-parc	6	21/5.6*	V
Bressay	3	6/0.36*	V	Winter Hill	12	91/1.2	V
Morecambe Bay	3	5.15/0.2*	H	Belmont	13	20/0*	V
Blaen-plwyf	3	3/1*	H	Wenvoe	13	200/5.8*	V

+32 low power satellites.
D.Prgr: All stations: Trade Test tr's: Mon–Sat 09.00–13.00. Prgr. (hours approx): Mon–Fri 10.00–12.00, 14.00–14.40. For Schools (during term-time) 09.10–12.00, 14.00–16.30; 17.00–23.05. Sat 13.45–23.00. Sun 14.00–18.15, 19.00–23.00.
The BBC has started a second TV prgr. on UHF on 625 lines as opposed to the existing prgr. on VHF on 405 lines. This second prgr. called BBC-2 started on April 20th 1964 for viewers in the London area and by 1966 it will be extended to 75% of the UK, giving a planned alternative prgr. to BBC-1.
BBC-2 (625 lines, UHF)

Stations	ch	kW(ERP)	Pol.	Stations	ch	kW(ERP)	Pol.
Rowridge	24	500	H	Emley Moor	51	1000	H
Crystal Palace	33	500	H	Wenvoe	51	500	H
Sutton Coldfield	40	1000	H	Winter Hill	62	500	H
Tunbridge Wells	44		V	Reigate	63		V
Black Hill	46	500	H	Pontop Pike	64	500	H
Guildford	46		V	Hertford	64		V

F.Pl: The BBC anticipates that it will introduce colour television broadc. by 1967 although no decision has yet been made about the system of transmission which will be employed.

INDEPENDENT TELEVISION AUTHORITY (I.T.A.) Comm.
Fi: Prgr. contractors financed solely from adv. revenue. I.T.A. financed solely from rentals paid by contractors. **Ad:** 6 mins. per h averaged over the day. Max. in any 1 h 7 mins – **Addr:** 70 Brompton Rd, London, S.W.3. **Te:** KNIghtsbridge 7011 – **L.P:** Chmn: The Rt. Hon. Lord Hill of Luton, P.C. Dir. Gen: Sir Robert Fraser, O.B.E.

Stations: chB	ch	Po.	kW(ERP)	Area served
Croydon	9	V	400	London
Lichfield	8	V	400	Midlands area
Membury	12	H	30	Midlands area
Scarborough	6	H	1	Norths area
Winter Hill	9	V	100	Norths area
Emley Moor	10	V	200	Norths area
Black Hill	10	V	475	C. Scotland
St. Hilary	10	V	200	So. Wales, We. England
Chillerton Down	11	V	100	So. England
Dover	10	V	100	So. England
Burnhope	8	H	100	No. Ea. England
Mendlesham	11	H	200	Ea. Anglia area
Sandy Health	6	H	30	Ea. England
Belmont	7	V	20	Ea. England
Black Mountain	9	H	100	No. Ireland
Strabane	8	V	100	No. Ireland
Stockland Hill	9	V	100	So. We. England
Caradon Hill	12	V	200	So. We. England
Caldbeck	11	H	100	The Borders
Selkirk	13	V	25	The Borders
Richmond Hill	8	H	10	The Borders
Durris	9	H	400	No. Ea. Scotland
Mounteagle	12	H	50	No. Ea. Scotland
Rumster Forest	8	V	30	No. Ea. Scotland
Augus	11	V	50	No. Ea. Scotland
Fremont Point	9	H	10	Channel Islands
Presely	8	H	100	We. and No. Wales
Arfon	10	H	10	We. and No. Wales
Moel-y-parc	11	V	25	We. and No. Wales
St. Hilary-Down	7	V	100	Welsh Service

D.Prgr: Trade transm: W 09.30–14.30, 15.30–17.00. For schools (during term time) Mon–Fri 14.30–15.30.
Prgrs: Mon–Fri 17.00–23.30, Sat 13.15–23.30, Sun 11.00–12.00, 14.00–23.30.

Independent Television News Ltd, TV House, Kingsway, London, W.C.2 – Provides the main news bulletins for all ITA Areas.
Independent Television Companies Association, TV Knighton House, 52 Mortimer Street, London W.1 – The Association acts on behalf of all prgr. companies on certain matters of common interest.

Prgr. Companies:
ABC Television Ltd, TV House, Mount Street, Manchester 2. Te: Deansgate 4597 – **Anglia Television Ltd,** Anglia House, Norwich. Te: Norwich 28366 – **Associated Television Ltd,** ATV House, 17 Gt. Cumberland Place, London, W.1. Te: Ambassador 8040 – **Border Television Ltd,** The Television Centre, Carlisle. Te: Carlisle 25101 – **Channel Islands Communications** (Television) **Ltd,** The Television Centre, Rouge Bouillon, St. Helier, Jersey, C.1. Te: Jersey 23451 – **Grampian Television Ltd,** Queen's Cross, Aberdeen. Te: Aberdeen 53553 – **Granada Television Ltd,** Granada TV Centre, Quay Street, Manchester 3. Te: Deansgate 7211 – **Rediff Television Ltd,** Television House, Kingsway, London, W.C.2. Te: Holborn 7888 – **Scottish Television Ltd,** Theatre Royal, Hope Street, Glasgow. Te: Glasgow Douglas 9999 – **Southern Television Ltd,** Southern Independent Television Centre, Northam, Southampton. Te: Southampton 28582 – **TWW Ltd,** Pontcanna Studios, Cardiff. Te: Cardiff 26633 – **Tyne Tees Television Ltd,** Television Centre, City Road, Newcastle upon Tyne. Te: Newcastle 610181 – **Ulster Television Ltd,** Havelock House, Ormeau Road, Belfast 7. Te: Belfast 28122 – **Westward Television Ltd,** Derry's Cross, Plymouth. Te: Plymouth 69311.
Ampex Videotape, TM AMPEX USA: BBC (Belfast, Bristol, Kingswood, London, London (A.P.), Manchester), BBC (TV Cont.) (London), Ulster TV (Belfast), TWW (Bristol), TWW (Cardiff), Granada (Chelsea), Scottish TV (Glasgow), Redif. TV (London), Assc. TV (London), ATV (London), ABC (Manchester), Granada (Manchester), Tyne Tees (Newcastle), Anglia TV (Norwich), Southern TV (Southampton), ABC (Teddington), Redif. TV (Wembley).
The Marconi Company Ltd, G.B. delivered to ITA: TV tr's: Durris 2×4, 2×1kW. Black Hill 2×4, 2×2½kW. Black Mountain 2×4, 2×1kW. Arfon 4×10, 8×500W. Burnhope 2×4, 2×1kW. Chillerton Down 2×4, 2×1kW. Croydon 2×10, 2×2½kW. Mounteagle 2×4, 2×1kW. Caldbeck 2×4, 2×1kW. Dover 2×4, 2×1kW. Emley Moor 2×10, 2×2½kW. Moel-y-Parc 4×10, 8×500W. Selkirk 4×10, 8×500W. St. Hilary 2×18kW amplifier. Winter Hill 2×10, 2×2½ kW.
Antennas: Croydon, Winter Hill, Embley Moor, Black Hill, St. Hilary, Chillerton Down, Burnhope, Black Mountain, Caldbeck, Mounteagle, Selkirk and Moel-y-Parc.
Studio equip: Aberdeen, Carlisle, Inverness, Moel-y-Parc – OBV: Rediff. TV (London) (3), ABC TV (London) (3), Associated TV (London) (1), Tyne Tees TV (Newcastle) (1).
(AKG) Austria, delivered studio equip. (recorders, microphones) to: BBC TV, Associated-Rediffusion Ltd, Associated TV Ltd, Granada TV, ABC TV, Grampian TV, Scottish TV, Tyne Tees TV, Anglia TV, Southern TV, TWW Ltd, Westward TV, Ulster TV, Irish TV, Independent TV News.
PYE T.V.T. (G.B.) delivered to I.T.A: TV tr's: Caradon Hill 2×5, 2×1.25kW, Stockland Hill 2×5, 2×1.25kW, Presely 2×5, 2×1.25 kW, Fremont Point 2×0.5, 2×0.125kW, Mendlesham 2×5, 2×1.25 kW, St. Hilary 2×5, 2×20kW, Lichfield 2×20, 2×5kW.
E.M.I. Antennas: Lichfield, Mendlesham, Caradon Hill, Stockland Hill, Dover, Durris, Fremont Point, Presely, Arfon Strabane.
Wilhelm Franz KG, Germany, delivered EMT studio equip. to ABC Television, Anglia Television, Rediff. TV, Associated Television, Border Television, Granada TV Network, Scottish Television.

GREECE

NATIONAL HELLENIC BROADCASTING INSTITUTE
(in collaboration with Public Power Corpo, and RAI).
Addr. & L.P: see radio – **Station:** Athens chE5 0.1kW.
Prgr's: Test and special prgr's only at varous times.

HOLLAND

NEDERLANDSE TELEVISIE STICHTING (N.T.S.)
Addr: P.O. Box 10, Hilversum. **Te:** 0 2950/16851. **Cable:** Televisie – The Dutch prgr's are provided by the N.T.S. and the broadcasting societies as mentioned under radio – **Board of the N.T.S:** Chmn: E. A. Schüttelhelm. Vice Chmn: A. B. Roosjen LLD. Secr: H. W. van Doorn LLD.
Prgr. I:
Stations: Lopik chE4 100/20kW H – Roermond chE5 50/10kW H – Smilde chE6 40/8kW H – Goes chE7 5/1kW H – Markelo chE7 30/6kW H – Den Helder chE10 1/0.2kW H.
D.Prgr: Sun, Mon, Tues 18.00–21.30. Wed 16.00–16.35, 18.00–22.10. Thurs 14.00–14.30, 18.00–21.45. Fri 18.00–21.45. Sat 09.00–10.00, 15.00–16.35, 18.00–21.45.
Prgr. II:
Stations: Lopik chE27 1000/200kW – Roermond chE31 500/100kW – Smilde chE47. – Goes II chE32 500/100kW – Markelo chE54 300/60 kW. – **D.Prgr:** W 19.00–21.10(Tues 21.35). Sun 18.30–21.10.
Educational Prgr: (In cooperation with "Stichting Teleac") during 3 hrs. a week. Prgr. times not fixed – **For schools:** Tues/Fri 10.45–11.35.
F.Pl: Prgr. I: Wieringen I chE39 300/60kW (1966). Prgr. II: Wieringen chE45 300/60kW (1966).
It is expected that end 1965 TV-transmission times will be extended. Also is planned introduction of advertisements in evening time. Details not yet available.

TECHNICAL UNIVERSITY DELFT
The exp. colour-tr. at the Technical University in Delft, constructed by staff and students, is testing at irr. times at a strict educational level when this needed in the studyscheme, in order to aquaint the students with various techniques. **Addr:** Technische Hogeschool, Lab. voor Elektronica, Afdeling der Elektrotechniek, Kanaalweg 2b, Delft. **L.P:** Ir. F. G. S. Huigen, Ir. D. Ch. van Maaren, K. Hoen, F. L. W. Dijstelbergen. – **Station:** chE30 600/120W.
PHILIPS: Eindhoven: Exp. colour tr: chE60 30/6kW: One evening monthly: 18.30–19.30. The prgr's are provided by the different broadc. societies.

HUNGARY

MAGYAR RADIO ES TELEVIZIO (Gov.)
Addr: Television Direction, C. Szabadsagter 17, Budapest. **Te:** 113-200.
L.P: Dir. Gen: K. Haynal. Dir. F. Kulcsár. Dir. Tec: R. Kerpel.

Stations:	ch	kW			ch	kW	
Budapest I	R1	30/10	H	Miskolc	R9	0.05/0.025	H
Pécs	R2	1/0.4	H	Sopron	R9	0.05/0.025	V
Tokaj	R4	1/0.25	H	Szentes	R11	20/4	H
Kékes	R8	4/0.8	H	Kabhegy	R12	20/4	H

D.Prgr: Tues, Wed, Thurs, Sat: 17.00–22.00, Sun 09.00–11.00, 15.00–22.00.
AKG, Austria: Microphones – WSW, Austria: Studio equipm. & Electronic equipm. – Pye TVT, GB: Studio equip, O.B.V. – Wilh. Franz KG, Germany: EMT studio equip. EMI Electronics, GB: Studio equipm., O.B. Vans.

IRELAND

TELEFIS EIREANN (Statutory Corpo)
Fi: By licence payments and adv – **Ad:** 10% of prgr. hrs. – **Addr:** Donnybrook, Dublin 4. **Te:** 693111. **L.P:** Contr. of Prgr's: G. Rugheimer. For other personnel: see radio.

WORLDVISION

Cable: AMBROCASTS to start Worldvision working for you in 20 million responsive homes.

Worldvision is ABC International's world-wide television network. It is the fastest-growing advertising medium in the world—a new kind of network designed for today's new breed of international businessmen. Here are the facts: 23 countries represented. The ABC Worldvision Network includes television stations in the following countries: Canada, Mexico, Japan, Guatemala, El Salvador, Honduras, Nicaragua, Costa Rica, Panama, Venezuela, Ecuador, Brazil, Colombia, Argentina, Lebanon, Iran, Nigeria, Dominican Republic, Okinawa, Philippines, Australia, Haiti, Netherlands Antilles. This represents a total of more than 20 million television homes—*an estimated 90 million viewers with a spending potential of $136 billion in disposable income.* The Worldvision Network can give you the best programs and scheduling to reach one—or all—of these far-flung markets efficiently through the impact of television. And the Worldvision Network is easy to use—as easy as cabling Ambrocasts.

ABC INTERNATIONAL TELEVISION, INC.
7 West 66th Street, New York, New York 10023
Telephone: SUsquehanna 7-5000
Cable: AMBROCASTS

EUROPE: Overseas Media GMBH, 19-25 Schiller Strasse, 6 Frankfurt/M, Germany, Telephone: 287654, Cable: OVERSEAS • European Editions, Ltd., 68 Upper Berkeley Street, London W1, England, Telephone: AMB 0331, Cable: OVAWEEKLY (London) • JAPAN: American Broadcasting Company, Rm. 615, Asahi Shimbun Building, Yurakucho, Chiyoda-ku, Tokyo, Japan, Telephone: 211-7796, Cable: AMCOCASTS

Stations: [1]System 1 (625 lines). [2]System A (405 lines).
Mt. Kippure[2] ch B7 100 25kW H – Truskmore[1] ch B11 100/20kW V – Kippure[1] ch IH 100/20kW H – Maghera[1] ch IB 80/16kW H – Mt. Leinster[1] ch IF 100/20kW V – Mullaghanish[1] ch ID 100/20kW V – Truskmore[1] ch IJ 100/20kW V +8 low power relay st's.
D.Prgr: 17.00–23.15.
Tr's: Pye, Marconi (G.B), L.G.T. (France) – **Studio Equip:** E.M.I, Marconi (G.B.).

ITALY

RADIO TELEVISIONE ITALIANA

The television Sce is an integral part of the Radiotelevisione Italiana – **Fi. & Ad:** see radio – **Addr:** Direzione Centrale TV, Via del Babuino 9, Roma – **L.P:** Dir. Prgr: Dr. S. Pugliese. **Dir. Tec:** Eng. G. Orsini. For other personnel: see radio.

NATIONAL PRGR. STATIONS:
Piemonte: Torino (C-o) 16/3.2kW+39 satellites.
Valle D'Aosta: 11 satellites.
Lombardia: Milano (G-o) 24/4.8kW – M. Penice (B-o) 100/20kW +40 satellites.
Trentino-Alto Adige: Paganella (G-o) 1.33/0.266kW – 48 satellites.
Veneto: M. Venda (D-o) 100/20kW +44 satellites.
Friuli-Venezia Giulia: Trieste (G-o) 1.4/0.28kW – Udine (F-o) 2/0.4 kW+23 satellites.
Liguria: Portofino (H-o) 127/25.4kW+31 satellites.
Emilia-Romagna: 37 satellites.
Toscana: M. Argentario (E-o) 2.5/0.5kW – M. Serra (D-o) 270/54 kW+51 satellites.
Marche: M. Conero (E-o) 24/4.8kW – M. Nerone (A-o) 34/6.8kW +30 satellites.
Umbria: M. Peglia (H-o) 32/6.4kW+11 satellites.
Lazio: M. Favone (H-o) 0.9/0.18kW – Roma (G-o) 36/7.2kW+37 satellites.
Abruzzo: Pescara (F-o) 1/0.2kW+34 satellites.
Molise: 8 satellites.
Campania: M. Faito (B-o) 40/0.8kW – M. Vergine (D-o) 1/0.2kW +30 satellites.
Puglia: Martina Franca (D-o) 220/44kW – M. Caccia (A-o) 34/6.8 kW – M. Sambuco (H-o) 35/7kW+11 satellites.
Basilicata: 23 satellites.
Cantabria: Gambarie (D-o) 19/3.8kW – M. Scuro (G-o) 8/1.6kW – Roseto Capo Spulico (F-v) 12/2.4kW – 36 satellites.
Sicilia: M. Cammarata (A-o) 35/7kW – M. Lauro (F-o) 50/12kW – M. Pellegrino (H-o) 8/1.6kW – M. Soro (E-o) 5/1kW+38 satellites.
Sardegna: M. Limbara (H-o) 3/0.6kW – M. Serpeddi (G-o) 2.12/0.424kW – Punta Badde Urbara (D-o) 145/29kW+30 satellites.

D.Prgr: W 08.30–14.30 "Telescuola" (for schools), 17.30–18.30 (Childrens h), 18.30–23.15 (approx). **Sun:** 10.15–12.00, 15.00–23.15.

SECOND PRGR:

Station	ch	kW	Station	ch	kW
Paganella	21	10/2	M. Favone	29	20/4
Magnano	21	1/0.2	Messina	29	9/1.8
Udine	22	150/30	Firenze	29	5.1/1.02
M.Cimarani	22	9.6/1.92	Como	29	1.5/0.3
M. Penice	23	1800/360	M. Serpeddi	30	250/50
M. Faito	23	1400/280	Torino	30	200/40
M. Luco	23	20/4	Catanzaro	30	3/0.6
Fabriano	23	3.6/0.72	Sondrio	30	2.4/0.48
M. Argentario	24	250/50	Sassari	30	2.25/0.45
M. Lauro	24	200/40	Bertinoro	30	1.575/0.315
Gorizia	24	4.8/0.98	M. Peglia	31	200/40
L'Aquila	24	3/0.6	Trieste	31	25/5
M. Venda	25	1000/200	Saint Vincent	31	16.5/3.3
M. Caccia	25	500/100	M. Vergine	31	15/3
M. Settepani	25	5/1	Trapani-Erice	31	10/2
M. Ortobene	25	2.4/0.48	La Spezia	31	2.1/0.42
Gambarie	26	200/40	Martina Franca	32	700/140
M. Conero	26	200/40	M. Beigua	32	60/12
Velletri	26	48/9.6	M. Limbara	32	20/4
M. Sambuco	27	200/40	M. Soro	32	15/3
M. Serra	27	200/40	Pietra Corniale	32	3/0.6
P. Badde Urbara	27	200/40	M. Nerone	33	200/40
M. Pellegrino	27	40/8	Potenza	33	3/0.6
Cima Pencgal	27	7.65/1.53	Teramo	33	2.4/0.48
Aosta	27	4.5/0.8	Benevento	33	1.95/0.39
Terminillo	27	3.2/0.64	Poira	33	1/0.2
M.Sommafiume	27	1/0.2	M. Cammarata	34	200/40
Roma	28	150/30	Col Visentin	34	10/2
M. Scuro	28	25/5	Col de Courtil	34	5.4/1.08
Cagliari	28	9.6/1.9	Sanremo	34	2.4/0.48
Catania	28	3/0.6	Terni	34	2.4/0.48
Portofino	29	1000/200	Alghero	35	1.44/0.288

+ 27 low power st's less 1kW.

Po: All st's H, exc. M. Faito, M. Argentario, Gorizia, M. Settepani, M. Ortobene, Gambarie, M. Pellegrino, Cagliari, Sassari, La Spezia, Teramo and Alghero: V.
D. Prgr: Sun: 18.00–19.25, 21.00–23.30 (approx) W: 21.00–23.15 (approx). N: 21.00.

LUXEMBOURG

TELE LUXEMBOURG (Comm.)

Fi: By adv – **Addr:** Compagnie Luxembourgeoise de Telediffusion, Villa Louvigny, Luxembourg – **L.P:** see radio.
Station (819 lines): Dudelange ch7 100/20kW H + 5 low power satellites.
D.Prgr: 18.00(Sat/Sun/Thurs 16.00)–21.30.
Ampex Videotape, USA – Fernseh G.m.b.H, Germany and PYE, GB: OBV.

MALTA

MALTA BROADCASTING AUTHORITY

an independent Authority, to regulate and supervise radio and television broadc. in Malta with power to prescribe and produce prgr's – **Addr:** 12, Old Treasury Street, Valletta. **Cable:** Broadcasts. **Te:** Ce 21281 – **L.P:** see radio.

THE MALTA TELEVISION SERVICE LTD. (Comm.)

A subsidiary of Rediff. International Ltd, London (Priv, Comm).
Fi: Adv. revenue and contributions for certain prgrs. prescribed by Malta Broadc. Authority.
Addr: P.O. Box 384, Gwardamanga. **Te:** Ce 25051. **Cable:** Television.
L.P: Gen. Mgr: E. A. Hamilton-Hill, O.B.E. Mgr: W. A. Fenton. Chief Eng: A. J. Bartolo.
Station: ChE10 4.8/1.2kW H – **D.Prgr:** 17.30–21.30.
Pye TVT, GB: Studio equip – The Marconi Company Ltd, GB: 1×2kW tr's – Gates, USA: 1×0.1kW tr.

MONACO

TÉLÉ MONTE-CARLO (Comm.)

Fi: By adv.– **Addr:** 16 Blvd. Princesse Charlotte, Monte-Carlo. **Cable:** Tele Carlo. **Te:** 305940 – **L.P:** Dir. Gen: J. Frydman. Secr. Gen: J. F. Micheo.
Stations: chF2, F10 50/12.5kW H – **D.Prgr:** 18.30–22.00 – Monoscope identification W 14.00–16.00.

NORWAY

NORSK RIKSKRINGKASTING: see page 128.

POLAND

POLSKIE RADIO I TELEWIZJA (Gov.)

Fi: By state – **Addr:** Telewizja, Plac Powstanców 7, Warszawa. **Te:** 263093. **Cable:** Telewar. **Telex:** 81421 – **L.P:** Pres: W. Sokorski. Vice Pres: S. Stefanski. Vicepres. Engineering: K. Kozlowski. Dir. Prgr: S. Bebenek. Chief Eng: R. Dzwonik. Film Buyer: W. Jankowski.
Main Stations: Pol. H. ch OIRT.

	ch	kW		ch	kW
Bydgoszcz	1	100/20	Poznan	9	100/20
Warszawa	2	100/20	Lublin	9	100/20
Zielona Gora	3	200/40	Krakow	10	200/40
Kielce	3	200/40	Gdánsk	10	100/20
Olsztyn	6	8/1.6	Zgorzelec	11	0.17/0.034
Lódz	7	2.5/0.5	Wroclaw	12	123/25
Katowice	8	225/56	Szczecin	12	100/20
Koszalin	8	100/20	Rzeszów	12	100/20
Bialystok	8	100/20			

+35 low power satellites.
D.Prgr's: 08.00–10.00, 16.00–22.00.
Studio equip: WZT (Poland), The Marconi Co, EMI, PYE TVT, G.B, CSF, France.

PORTUGAL

RTP–RADIOTELEVISÃO PORTUGUESA S.A.R.L. (Comm.)

Port. Gov: ½ of the shares – **Fi:** Licence payments and adv – **Addr: Head office:** Rua de S. Domingos (à Lapa), 26 Lisboa. **Studio in Lisboa:** Alameda das Linhas de Torres, 44, **Porto:** Vila Nova de Gaia. **Cable:** Telvisão. **Te:** 666134 – **L.P:** Dir. Adm: F. X. A. Conseicao. Dir. Prgr: C. M. de Araujo. Dir. Tec: F. B. Machado. Head External Rel. Div: Dr. A. de Bivar.
Stations: ch E: Lisboa 7 100/20kW H – Porto 9 100/20kW H – Lousa 3 60/12kW H – Montejunto 6 1/0.2kW H.
Relay st's: Monchique ch5 6/1.2kW H – Marofa ch5 1/0.2kW H +10 low power stations.
D.Prgr: W 18.45(Sat 17.30)–24.00. Sun 12.30–13.30, 17.30–24.00 (June–October: W 19.30–24.00, Sun 12.30–13.00, 18.30–24.00).
Ampex-Videotape, USA; Telefunken AG, Germany: delivered studio equip (recorders). EMI Electronics, GB: Studio equip.

RUMANIA

RADIODIFUZIUNEA TELEVIZIUNEA ROMANA (Gov.)

Addr: Televiziunea Romana, Str. Molière 2, Bucharest – **L.P:** see radio.

Stations (System OIRT – 625 lines): Pol: H.

Bucuresti chR2 100/50kW – Bacau chR1 3/1kW – Oradea chR3 120/30kW – Tg. Mures chR5 15kW – Timisoara chR9 50/15kW – Iasi chR9 15/5kW – Constanta chR10 50/15kW – Cluj chR11 15/5 kW – Deva chR12 20/7kW+15 low power repeater st's.

D.Prgr: D exc. Tues 17.00–21.00, Sun also 06.30–10.00. Comm. prgr's are transmitted separately.

SPAIN

TELEVISION ESPAÑOLA (Gov.)

Addr: Apartado de Correos 26.002, Madrid 11. **Te:** 238 0445. **Cable:** Television. Studios in Madrid, Barcelona & Las Palmas – **L.P:** Dir. Gen: D. J. Aparicio B. Vice Dir. Gen: D. L. Ezcurra C. Dir. Prgr: D. A. Suarez. Dir. Tec: D. E. Gavilán E.

Stations: Pol H: Navacerrada (Madrid) ch2 300/50kW – Madrid (Po. Habana) ch4 1.5/0.5kW – Aitana (Alicante) ch3 60/10kW – Sierra Aramo (Asturias) ch3 3/0.5kW – La Muela (Zaragoza) ch3 3/0.5kW – Guadalcanal (Sevilla) ch4 120/24kW – Stgo. de Compostela ch4 120/20kW – Sollube (Bilbao) ch4 60/10kW – Barcelona ch4 250/50kW – Alpicat (Lérida) ch5 3/0.5kW – Alfabia (Mallorca) ch6 3/0.5kW – Sierra Lujar (Granada) ch7 200/20kW+240 low power relay stations.

D.Prgr: W 13.00–16.00, 18.30–23.00. Sat 13.00–24.00. Sun 09.30–23.00.

Second Prgr (Pol: H):

Madrid (Po. Habana) ch21 100/10kW – Madrid (Navacerrada) ch24 1000/50kW – Zaragoza (La Muela) ch33 250/10kW – Barcelona ch31 400/20kW – **D.Prgr:** 19.45–23.00(Sat 24.00) – **Projected st's:** Bilbao, S. Sebastian, Valencia.

Ampex Videotape, USA: Madrid, Barcelona – RCA Magnetoscopes: Madrid, Canarias (Las Palmas) – AKG, Austria; Philips, Holland: Audio equip. Barcelona, Madrid, Las Palmas – PYE, GB; Thomson, France: OBV – Marconi, EMI, GB; Thomson, France; Philips, Holland: Video equip. Barcelona, Madrid, Las Palmas.

SWEDEN

SVERIGES RADIO

Swedish TV; run by Sveriges Radio, has the same non-comm, and official status as the broadc. service – **Fi:** by licence payments – **Addr:** Radiohuset, Oxenstiernsgatan 2, Stockholm. **Postal Addr:** Box 955, Stockholm 1. **Te:** 670865 (local 631000). **Cable:** Broadcast – **L.P:** Dir. Prgr: K. E. Lundevall. For other personalities: see radio.

Kungl. Telestyrelsen (The Telecommunication Administration) has the responsibility for the distribution of the prgr's produced by Sveriges Radio and has also charge of the collection of licence fees – **Addr:** Box 16065, Stockholm 16 – **L.P:** see radio.

Stations: chE, Po: H, kW (E.R.P).

Name	ch	kW	Name	ch	kW
Hörby	2	100/20	Sunne	7	60/12
Örebro	2	60/12	Halmstad	7	60/12
Vännäs	2	60/12	Motala	7	3/0.6
Uddevalla	2	5/1V	Trollhättan	7	1/0.2
Skövde	3	60/12	Bäckefors	8	60/12
Sveg	3	60/12	Emmaboda	8	60/12
Boden	4	60/12	Haparanda	8	60/12
Stockholm	4	60/12	Lycksele	8	30/6V
Östersund	4	60/12	Mora	8	10/2V
Arvidsjaur	5	60/12	Västerås	8	10/2
Norrköping	5	60/12	Ånge	8	15/3
Sundsvall	5	60/12	Gällivare	9	60/12
Vislanda	5	5/1V	Gävle	9	60/12
Karlstad	5	1/0.2V	Göteborg	9	60/12
Kiruna	6	60/12	Täsjö	9	60/12
Västervik	6	25/5	Linköping	9	1/0.2
Bollnäs	6	15/3	Visby	9	25/5
Skellefteå	6	10/2	Karlskrona	9	3/0.6V
Uppsala	6	3/0.6	Nässjö	10	60/12
Örnsköldsvik	6	3/0.6V	Borlänge	10	60/12
Borås	6	3/0.6V	Malmö	10	1/0.2
Pajala	7	60/12	Varberg	10	1/0.2V
Sollefteå	7	60/12			

+68 low power satellites.

TV st's under construction: 7 satellites before end of 1965 and 16 satellites before July 1st 1966.

D.Prgr: (Schools prgr's not included). Times are approx. Sun 12.00–14.00, 15.00–16.00, 17.15–22.00. Mon 13.00–15.00, 17.30–21.45. Tues 15.30–15.50, 18.00–21.00. Wed 13.00–15.15, 17.30–21.00. Thurs 18.00–21.30. Fri 15.30–15.50, 17.00–21.35. Sat 13.00–22.30.

TV-tr's: Laboratoire Général des Télécommunications (L.G.T.): 43 st's – Magneti Marelli: 7 st's – Marconi: 37 st's – Philips: 24 st's – Siemens: 1 st. – Standard: 1 st – Compagnie Générale de Télégraphie sans Fil (C.S.F.): 1 st – RCA: 1 st.

SWITZERLAND

SWISS TELEVISION (Gov.)

Fi: By the proceeds from the TV licence-fees, divided between the SBC and PTT at the rate of 70:30 per cent and from February 1st, 1965, by the proceeds from commercial television: 12 minutes per weekday at the utmost in the early evening, at the rate of 6000 frs a minute – **Addr:** Swiss Television, 26 Kreuzstrasse, Zürich. **Cable:** Telesuisse. **Te:** Zürich (051) 34.80.30, Geneva (022) 24.72.50, Lugano-Besso (091) 32021 – **Studios:** Kreuzstrasse 26, 8000 Zurich 66; Boulevard Carl-Vogt 1200, Geneva; 6900 Lugano-Besso.

L.P: Dir. Swiss TV: E. Haas. Reg. TV Dir. & Head of German Prgr: Dr. G. Frei. Reg. TV Dir. & Head of French Prgr: R. Schenker. Reg. TV Dir. & Head of Italian Prgr: F. Marazzi. Head Tec: H. R. Züst. Head Adm: R. Wydler. Head Prgr. Coordination: F. R. Tappolet.

Stations: ch E. Po: H.

German Prgr:	ch	kW		ch	kW
Bantiger	2	30/6	Säntis	7	15/3
Niederhorn	12	5/1	Uelitberg	3	100/20
Rigi	6	30/6	Valzeina	10	5/1
St. Chrischona	11	50/10			

+18 low power PTT Boosters and 7 Priv. Boosters.

French Prgr.	ch	kW		ch	kW
Bantiger	10	100/20	La Dôle	4	144/28.8
La Chaux de Fonds	9	4.5/0.9	Les Ordons	7	6/1.2

+10 low power PTT Boosters and 1 Priv. Booster.

Italian Prgr:	ch	kW		ch	kW
Mt. Ceneri	5	4.5/0.9	Mt. S. Salvatore	10	10/2

+9 low power PTT Boosters.

D.Prgr: German: Sun 15.00–21.30 (in the morning: twice a month rlg. sermon); Mon 18.00–21.30, Tues 18.00–21.45, Wed 15.45–17.00, 18.00–21.45, Thurs 16.30–17.30, 18.00–21.30, Fri 18.00–21.45, Sat 13.00–14.00 (for Italian workers, repeatet 17.00–18.00), 16.00–22.00 – **French:** Sun 15.30–21.45 (in the morning: twice a month rlg. sermon), Mon, Tues, Fri 18.00–21.45, Wed 15.45–17.00, 18.00–21.45, Thurs 16.30–17.30, 18.00–21.45, Sat 13.00–14.00 (for Italian workers), 16.00–22.00 – **Italian:** Sun 15.30–21.35 (in the morning: twice a month rlg. sermon), Mon–Fri 18.25–21.35, Sat 13.00–14.00 (for Italian guest workers), 17.00–21.45.

Relay facilities: A microwave link across the Alps. It runs from Gempen, near Bale (northern border) to Froburg-Bantiger-Jungfrau (12.200 ft.) – Mt. Generoso (southern part of Switzerland) on the one side, and the German and Italian TV systems on the other side – A second microwave link runs from Uetliberg-Froburg-Bantiger-Romont – La Dole. It has been extended to Cuiseaux for the programme exchange with France – Third link: Uetliberg–Säntis–Pfänder (Austria) Fabbrica Italiana Apparecchi Radio SpA, Italy, has sold different TV repeaters, antennas, amplifiers to the following st's: Bantiger, Mt. Morello, Ravoire, St. Gallen, Val de Travers – The Marconi Company Ltd, GB, delivered OBV(2) – Brown Boveri, Switzerland, delivered: Uetliberg 2×10/2kW, La Dole 10/2kW, Rigi 2×4/0.8kW, Säntis 1.5/0.3kW, S. Salvatore 2×1.5/0.3kW – Sondor, Switzerland: delivered studio equip. (Zürich, Geneva, Lugano). – Ampex Videotape, USA (Geneva, Zürich). – Telefunken AG, Germany, delivered studio equip (recorders). – Pye, TVT, GB: Studio equip, OBV – EMI Electronics, GB: Studio equipm.

U.S.S.R.

THE SOVJET TELEVISION (Gov.)

Addr's of the most important TV studios: Tsentralnaja studija televidenija Moskva, ul. Sjabolovka 53 (Dir: I. Inozemtsev) – Leningradskaja studija televidenija Leningrad ul. Malaja Sadovaja 2 – Kijevskaja studija televidenija Kijev, Krestjatik 24 – Minskaja studija televidenija Minsk, ul. Kalinina 6 – Rizjskaja studija televidenija Riga, ul. B. Nometnu 62 – Tallinskaja studija televidenija Tallin, ul. Krejtsvalda 14 – Bakinskaja studija televidenija Baku, Parkovajaul – Tasjkentskaja studija televidenija Tasjkent, ul. Navoi 69 – Jerevanskaja studija televidenija Jerevan, pr. Ordzjonokidze 22 – Tbilisskaja studija televidenija Tbilisi pr. Rustaveli 12 – Vilnjusskaja studija televidenija Vilnius, studija televidenija – Alma-Atinskaja studija televidenija Alma-Ata, studija televidenija – Kisjinjovskaja studija televidenija Kisjinjov, studija televidenija.

Stations: Television Centres: Channel R. Def. 625. Po: H.

Moscow ch1 15/4kW – Moscow ch3 7.5/3kW – Moscow ch8 (colour).

D.Prgr: ch1: W 09.00–10.00, 14.30–20.00(approx). Sun 09.00–19.45 – **ch3:** D 15.40–17.00(Sat 18.00) – **ch8:** Thurs 12.30–13.00.

RSFSR: Abakan ch1 – Arkhangelsk ch1: 16.00–18.00(Sat 19.00) – Biysk ch1 – Blagoveschensk ch3 5/2kW – Bryansk ch2 – Cherepovets ch5 – Chelyabinsk ch4 15.00–18.00 – Chistopol ch7 – Gorkiy ch2 – Grozny ch3 – Izhevsk ch2 – Irkutsk ch3 – Kazan ch1 – Kaliningrad

ch4: 15.00–19.30 – Kemerovo ch5 – Khabarovsk ch3 – Kirov ch3 – Komsomolsk ch1 – Krasnodar ch5 – Krasnojarsk ch2 – Kurgan ch5 – Kursk ch9 – Kuybyshev ch3 – Leningrad ch1 15/4kW – Leningrad II ch3 – Magadan ch1 – Magnitogorsk ch3 – Murmansk ch3 – Nalchik ch1 5/2kW – Novomoskovsk ch5 – Novosibirsk ch2 – Norilsk ch1 – Omsk ch1 5/2kW – Orel ch6 – Penza ch4 – Perm ch1 – Petrozavodsk ch2 5/2.5kW – Pyatigorsk ch2 – Rostov ch1 – Rybtsovsk ch2 – Saransk ch8 – Saratov ch1 – Smolensk ch5 – Sochi ch1 – Sverdlovsk ch3 5/2kW – Tomsk ch1 5/2kW – Tyumen ch1 5/2kW – Ulyanovsk ch5 – Ufa ch1 5/2kW – Vladivostok ch1 – Vorkuta ch3 – Voronezh ch3 – Yaroslavl ch2 – Konotop, Kurgan, Raychinsk, Uhkta, Urgench, Yoshar-Ola, Yuzhno-Sakhalinsk ch3.
Ukrainian SSR: Dnepropetrovsk ch5 5/2kW – Donetsk ch4 15/4kW – Kherson ch3 2/1kW – Kiev ch2 15/4kW 15.00–20.00 (Sat also 10.30–11.00, 13.30–14.00) – Kiev II ch3 – Lugansk ch2 – Lutsk ch3 – Lvov ch1 – Nikolayev ch2 – Odessa ch5 15/4kW – Sevastopol-Kharkov ch3 7/3.5kW – Simferopol ch3 – Vinnitsa – Zaporozhye ch6.
Bielorussian SSR: Brest ch7 – Gomel ch3 15.00–20.00 – Minsk ch1 5/2kW.
Kazakh SSR: Alma-Ata ch3 5/2kW 12.00–17.00 (Sun also 05.00–06.30) – Dzhezkazgan ch1 – Karaganda ch1 – Kustanai – Pavlodar-Petropavlovsk – Rudno – Tselinograd – Ust-Kamenogorsk ch1.
Azerbajan SSR: Baku ch3 5/2kW. **D.Prgr:** 14.05–18.30 – **Lithuanian SSR:** Vilnius ch4 15/4kW – **Armenian SSR:** Yerevan ch1 5/2kW V – **Moldavian SSR:** Kichinev ch3 15/4kW 16.00–20.00 – **Latvian SSR:** Riga ch3 5/2kW – Riga II ch10 – **Estonian SSR:** Tallinn ch2 15/4kW – Tallinn II ch3 – **Uzbek SSR:** Tashkent ch3 5/2.5kW 12.00–16.00 – **Georgian SSR:** Tbilisi ch4 5/2kW – **Kirghiz SSR:** Frunze ch1 – **Tadjik SSR:** Dushanbé ch1 – Volgograd ch4 – **Turkmenian SSR:** Ashkhabad ch1 13.00–17.30 (Sun also 07.00–11.00).
Projected Stations: Television Centres:
RSFSR: Belgorod – Berenzniki – Cheboksary – Chita – Magnitogorsk ch3 – Ordzhonikidse – Orenburg – Petropavlovsk Kamchatka – Stavropol – Syktyvkar – Ulan Ude ch3 – Yakutsk. **Ukrainian SSR:** Novokuznetsk – Stanislav. **Kazakh SSR:** Aktyubinsk ch1 – Balkhash. *Uzbek SSR: Nukus. Turkmen SSR: Krasnovodsk – Nebit Dag.* **Azerbajan SSR:** Baku II ch7 – Kirovobad – Nakhichevan.
F.Pl: New television centre at Moscow-Ostankino: 6 different prgr's with a total broadc. time of 50 hrs per day (completion Oct. 1967).
The Marconi Company Ltd, G.B, delivered OBV(2) to Moscow, OBV(1) to Leningrad, Pye TVT, G.B: studio equip, OBV.
EMI Electronics, GB: Studio epuip, O.B.Van, Colour equip.

YUGOSLAVIA

RADIO TELEVISION YOUGOSLAVE (Gov.)

Fi: By licence payments – **Ad:** 170 mins. per week.
Addr's: Radiotélévision Yougoslave: 70, B. Kidrica, Beograd. **Te:** 43-693. **Telex:** 01-259 jurate Beograd – **Radiotélévision Beograd:** 10, Trg Marksa i Engelsa. **Te:** 24-214. **Telex:** 01-288 – **Radiotélévision Zagreb:** 4, Jurisićeva, Zagreb. **Te:** 37-741. **Telex:** 02-126 – **Radiotélévision Ljubljana:** 17, Tavcarjeva, Ljubljana. **Te:** 31-922. **Telex:** 03-102.
L.P: Radiotélévision Yougoslave: Pres. Adm. Com: Z. Vuković. Secr. Gen: Dr. I. Pustisek. Head For. Rel: Mrs. O. Vojvodić. Pres. Prgr. Com. TV: D. Fortić. Secr. Prgr. Com. TV: M. Milosavljevic. Pres. Tech. Com: S. Rojec – **Radiotélévision Beograd:** Dir. Gen: Z. Vuković. Dir. TV: D. Ilic. Chief Editor TV: A. Stefanovic, A. Vitorovic. Dir. Tec: R. Zizic – **Radiotélévision Zagreb:** Dir. Gen: I. Bojanić. Dir. TV: T. Golubović. Chief Editor TV: A. Zadrović. Dir. Tec: V. Trs – **Radiotélévision Ljubljana:** Dir. Gen: B. Mikos. Dir. TV: D. Fortić. Chief Editor TV: I. Gruden, B. Hvala. Dir. Tec: S. Pernus.
Stations in operation (625 lines, sound: FM, Po. H chE).

Serbia	ch	kW(ERP)		ch	kW(ERP)
Kopaonik	3	50/10	Krvavec	5	6/1.2
Jastrebac	5	100/20	Nanos	6	40/8
Avala	6	100/20	Plesivec	6	0.5/0.1
Goles	7	35/7	Pohorje	11	2/0.4
Ovcar	8	1/0.5	+36 low power repeaters.		
Crveni Cot	10	30/6.4	**Bosnia/Herzegovina**		
Tupiznica	10	4/3.2	Kozara	6	10/2
Crni Vrh	11	35/7	Hum	8	10/2
+13 low power repeaters.			Vlasic	11	100/20
Croatia			+39 low power repeaters.		
Labistica	4	15/3	**Macedonia**		
Celevac	8	50/10	Crni Vrh	6	50/10
Sljeme	9	100/20	+9 low power repeaters.		
Ucka	11	100/20	**Montenegro**		
+5 low power repeaters.			Lovćen	8	6.7/1.35
Slovenia			Bjelasica	12	6.8/1.36
Kum	3	2/0.4	+8 low power repeaters.		

D.Prgr: Common Prgr. for Beograd, Zagreb, Ljubljana, Skopje, Sarajevo: Sun 08.30–13.00, 14.00–21.40. Mon 09.00–10.00, 16.40–21.15. Wed 09.00–10.00, 15.50–21.05. Thurs 09.00–10.30, 16.40–20.55. Fri 09.00–10.00, 15.40–21.05. Sat 09.00–10.00, 16.40–21.35 – Test-tr's: Beograd, Zagreb, Ljubljana, Skopje – daily one h before the beginning of tr's.
Fabbrica Italiana Apparecchi Radio SpA, Italy, has sold different TV repeaters, antennas, amplifiers to the following st's: Bjelasnica, Banovici, Borasnica, Kozora, Leotar, Majevica, Mostar, Pljesivica, Sarajevo, Skopje, Tusnica, Tuzla, Velez.
The Marconi Company Ltd, GB: 50W tr. (Skopje).

ALGERIA

RADIO ALGERIE (Gov.)

Addr: 21, Blvd. des Martyrs, Algiers – **L.P:** see radio.
Stations: Def. 819: Algiers ch11 20/5kW H d – Oran ch8 12.5/1.25 kW H – Tizi-Ouzou ch7 0.1/0.025kW (repeats ch11 Algiers) – Chrea ch6 (Satellite) 5/1.25kW H – Constantine ch7 0.2/0.05kW H.
D.Prgr's: 19.00–23.00.
St's under construction: Algiers ch11 2/0.4kW, Constantine ch7 10/2kW, Oran ch10 2/0.4kW, Setif ch5 10/2kW, Akfadon ch10 10/2 kW, Chiea ch9 10/2kW, Orleansville ch6 10/2kW, Tersala ch8 10/2kW.

CANARY ISLANDS

TELEVISION ESPAÑOLA EN CANARIAS

Addr: Rambla del General Franco 59, Santa Cruz de Tenerife, or Casa del Marino, Las Palmas de Gran Canaria. **Te:** Tenerife 1198, Las Palmas 41422 – **L.P:** Dir: D. M. de Zavala Castella.
Station: Santa Cruz de Tenerife chE3 300/25kW H – Las Palmas (relay) chE6 0.025kW.
D.Prgr: 14.00–15.30, 18.15–24.00.

CONGO

RADIODIF. TELEVISION CONGOLAISE (Gov.)

Addr: B.P. 2241, Brazzaville – **L.P:** St. Mgr: M. Itoua. Dir. Tec: M. Roger.
Station (System D 625 lines): 199.25/205.75Mc 2kW H.
D.Prgr: D exc. Mon, Tues: 17.30–20.30. For schools W 08.00–09.45.
PYE TVT, G.B: studio equip.

EGYPT

U.A.R. BROADCASTING CORPORATION OF CAIRO

Fi: By license payments, state subsidy and adv – **Addr:** TV Bldg, Cornish Rd, Cairo. **Te:** 812070. **Cable:** Kahivision – **L.P:** Dir. of Prgr's: H. Hilmy. Dir. of Eng: A. Kandeel. For other personnel: see radio.
Stations: Ch E; Sound FM: Vision AM (CCIR Standard).

	ch	kW			ch	kW	
Cairo 1	5	100/20	H	Kassassin	9	3.5/0.7	V
Cairo 2	7	20/4	H	Ismailia	6	3.5/0.7	V
Cairo 3	9	20/4	H	Suez	9	3.5/0.7	H
Alexandria 1	6	25/5	H	Bush	11	6/1.2	H
Alexandria 2	9	6/1.2	H	Maghagda	6	6/1.2	H
Mansoura	8	1.6/0.3	H	El-Minya	9	6/1.2	H
Tanta	10	13.5/2.7	H	Mallawi	5	3.5/0.7	H
Assuan	5	1.2/0.2	H	Qusiya	7	3.5/0.7	H
Port Said	3	5/1	H				

D.Prgr: 1st Prgr: D 08.00–09.15, 13.00–21.00, Fri 07.00–21.00. **2nd Prgr** (Cairo 2, Alexandria 2, Tanta): D 13.00–21.00, Fri also 07.00–09.00 – **3rd Prgr** (Cairo 3, Assuan): 15.00–20.00.
Projected St's: Damietta ch6 6/1.2kW H – Assiut ch10 6/1.2kW H – Kom-Aumbo ch9 – Edfo ch6 – Essna ch10 – Rayaina ch8, Luxor ch5 (all 20/4kW H).

ETHIOPIA

ETHIOPIAN TELEVISION SERVICE (Gov.)

(Opened by His Imperial Majesty Haile Selassie on Nov. 2nd 1964).
Addr: P.O. Box 1020, Addis Ababa. **Te:** 16701. **Cable:** Ethiotv – **L.P:** Dir. Gen: A. N. Haptewold. St. Mgr: C. Butcher. Eng. in charge: J. Morgan – **Station** (System Philips): chE7 0.5/0.1kW – **D.Prgr:** Mon, Tues 17.00–19.15; Wed, Thurs 17.00–19.40, Fri 17.00–19.25, Sat 14.00–14.30, 17.00–19.20. Sun 17.00–19.05 – **F.Pl:** prgr's for adults & children.

GABON

TELEVISION GABONAISE (Gov – educational)

Addr: B.P. 1029, Libreville – **L.P:** Dir. Gen: M. Rawiri – **Station:** Libreville ch III 0.05/0.01kW – **D.Prgr:** D exc. Mon, Tues 19.15–20.15.

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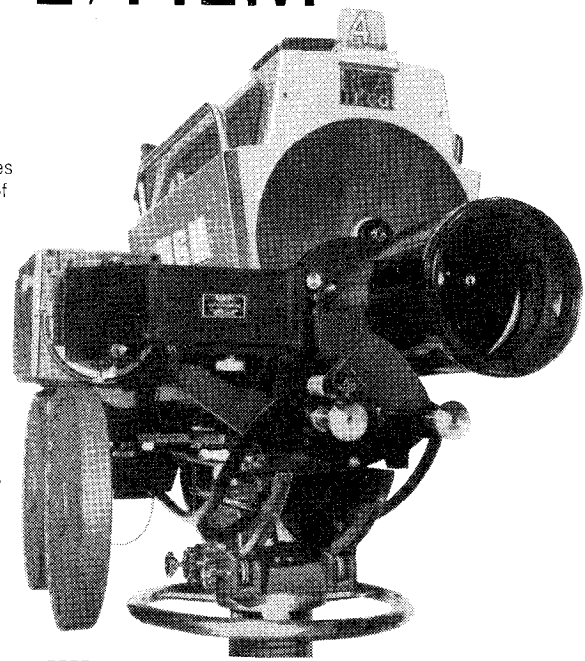

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GHANA

GHANA RADIO AND TELEVISION CORPORATION (Gov)
Addr: P.O. Box 1633, Accra – **L.P:** see radio.
Stations (System B 625 lines): Kissi ch2 15/3kW H – Jamasi ch3 15/3kW H – Adjankote ch4 15/3kW H – Tamale ch5 0.2/0.4kW H – Akosombo (relay) ch5 0.015/0.003kW H – **D.Prgr's:** 17.30–22.00 (Sun also 16.00–17.30). For schools: W 09.00–10.30.
The Marconi Company Ltd, G.B, delivered TV tr's (1×1, 1×5kW) to Ajangote, Jamasi, Kisi, OBV Accra (2); studio equip.

IVORY COAST

RADIODIFFUSION TELEVISION IVORIENNE (Gov.)
Addr: TV House, Blvd. Latrille, Abidjan. **Te:** 23511. **Cable:** RTI *Television* – **L.P:** *Dir:* C. *Nogbou. Dir. Tec:* D. *Coulibaly.*
Stations (System K, 625 lines):
Abidjan ch R10 10/2kW H – Bouaflé ch R9 10/2kW V.
D.Prgr: 18.00–21.45.

KENYA

VOICE OF KENYA TELEVISION (Indep.)
Comm. adv (6 mins. per h) – **Addr:** Box 30456, Nairobi. **Te:** 24211 – **L.P:** see radio.
Stations: chE4 15/3kW H – **Relay st:** chE2 0.5/0.1kW – **D.Prgr:** 14.30–19.30 (English, Swahili).
The Marconi Company Ltd, GB: 1×1kW, 1×5kW tr.
Hillcrest: 1×3kW tr. Nairobi, ant, studio equip – AKG, Austria: equip. (recorders, microphones).

LIBERIA

LIBERIAN BROADCASTING CORPORATION (Gov, Comm.)
Addr: P.O. Box 594, *Monrovia* – **L.P:** see radio.
Station: ELBC-TV chE6 2.5/0.45kW – **D.Prgr's:** 19.15–23.15.

MAURITIUS

MAURITIUS BROADCASTING CORPORATION (Comm.)
Addr: Malherbes Transmitter Bldg, Forest Side – **L.P:** see radio.
Stations: Forest Side chE4 5/1kW H – Port Louis (satellite) chE7 0.3/0.06kW H – **D.Prgr:** 14.30–18.00.
The Marconi Company Ltd, G.B: 1×1, 1×5kW tr.

MOROCCO

RADIODIFFUSION TELEVISION MAROCAINE (Gov.)
Addr. 1. rue Pierre Parent, Rabat – **L.P:** See radio.
Stations: Rabat ch M7 24/4.8kW H – Casablanca ch M10 100/20kW H – Marrakech ch M6 0.3/0.06kW H. + 8 lowpower relay st's.
D.Prgr's: 19.30–24.00. **French:** 19.30–21.00. **Arabic:** 21.00–24.00.

NIGERIA

NIGERIAN TELEVISION SERVICE (NTS – Gov, Comm.)
Fi: By state and comm. revenue – **Ad:** Approx. 10% of time – **Addr:** Television House, Victoria Island, Private Mail Bag 12005, Lagos. **Te:** 26391. **Cable:** Nivision – **L.P:** Man. Dir: G. Roger Bower. Dir. of Prgr's: C. Kolade. Dir. of Eng: J. Burrell. Dir. of Adm: D. A. Smith. Comm. Dir: A. Williams
Station (System RCA): Lagos chE10 40/8kW H
D.Prgr's: 18.00–21.15.

EASTERN NIGERIA TELEVISION (ENTV):
Addr: P.O. Box 350, Enugu – **L.P:** see radio.
Stations: Enugu chE2 60kW H, Aba chE4 60kW.
D.Prgr: W 17.00–21.30 (Sat/Sun 23.00).
Pye TVT, GB: studio equip – RCA, USA: tr's, aerials, studio equip.

RADIO KADUNA TELEVISION (RKTV)
Addr: RKTV, Box 250, Kaduna, No. Nigeria. **Te:** 2294. **Cable:** Radionorth – **L.P:** see radio.
Stations: Jaji chE4 40kW H – Kano chE10 25kW H.
D.Prgr: 17.30–21.30.

WESTERN NIGERIA RADIOVISION SERVICE
Addr: P.O. Box 1460, Abadan – **L.P:** see radio.
Stations: Abafon (Lagos) chE3 60/15kW H – Ibadan chE4 50/12.5 kW H – **D.Prgr:** 17.25–21.15 (or 21.30) – **F.Pl:** Ilesha chE5 50kW (Dec 66), Akure chE11 (Dec 67).
EMI Electronics & Marconi Co, GB: tr's, antennas, OBV.

REUNION

OFFICE DE RADIODIFF. TELEVISION FRANCAISE (Gov.)
Addr: B.P. 309, St. Denis – **L.P:** see radio.
Station (System K, 625 lines): St. Denis ch8 50/10W.
D.Prgr's: 15.00–18.00.

RHODESIA

RHODESIA BROADCASTING CORPORATION (Gov.)
Addr: P.O. Box 8008, Salisbury – **L.P:** Dir. Gen: J. H. Parry, O.B.E. Gen. Mgr: J. Terry. Chief Eng: M. N. Smuts, B.Sc (Eng), A.M.I.E.E.
Stations: Salisbury chE4 20kW – Bulawayo chE3 3kW.
D.Prgr: W 15.25(Sat 15.00)–21.00.

SENEGAL

SENEGAL TELEVISION (*Gov-Educ.*)
Addr: Projet-Pilote, Centre for Mass Information and Education, (UNESCO), B.P. 2375, Dakar. **Te:** 235-54 – **L.P:** Dir: Ch. Fall. Dir. of Projet-Pilot: J. Bâ. Dir. Tec: J. N. Doye.
Station (625 lines): Dakar ch III 0.05kW H.
D.Prgr's: Tues, Thurs 17.00–17.30. Twice a month Fri 21.00–22.15 – **F.Pl:** A fourth Prgr. consisting of a twice weekly French literacy series.

SIERRA LEONE

SIERRA LEONE TELEVISION (Gov.)
Ad: Comm. adv. spots accepted – **Addr:** Private Mailbag, Freetown. **L.P:** Gen. Mgr: C. O. Peck (Ag). Chief Eng: C. O. Peck.
STATION: chE2 0.1kW H – **D.Prgr:** W 18.30–23.00, Sun 14.00–16.00, 18.30–23.00.
Pye TVT, GB: Tr, ant, studio equip.

SUDAN

SUDAN TELEVISION (Gov.)
Addr: Khartoum – **Station:** ChE5 1/0.2kW H.

TUNISIA

RADIODIFFUSION-TELEVISION TUNISIENNE (Gov.)
Addr: 139, Avenue de Paris, Tunis – **L.P:** see radio.
STATION (CCIR 625 lines): Bou-Kornine chE6 1.3/0.325kW H.
D.Prgr: 18.00–21.00.

UGANDA

UGANDA TELEVISION SCE. (Comm – operated by Ministry of Inf. Broadc. and Tourism) – **Addr:** P.O. Box 4260, Kampala – **L.P:** Gen. Mgr: (to be appointed). Dir. Tec: H. G. Toombs.
Station: Kampala ch5 & 10 60kW H – **D.Prgr:** 15.00–19.00.

UPPER VOLTA

VOLTA VISION (Gov.)
Addr: B.P. 511, Ouagadougou – **L.P:** see radio.
Station (System D 625 lines): *Ouagadougou ch6 0.05kW V.*
D.Prgr: D exc. Sat 20.00–22.00.
Projected: Koudougou 1kW H – Bobodioulasso 1kW H.

ZAMBIA

TELEVISION ZAMBIA (Gov.)
Addr: P.O. Box 1100, Kitwe. **Te:** 3507. **Cable:** Tee-Vee. **Telex:** KE 5128 – **L.P:** Gen. Mgr. & Film Buyer: G. Wykes.
Station: Kitwe chE4 13.6/2.7kW H – Lusaka chE3 – **D.Prgr:**15.00–19.30

ASIA

ADEN (Federation of So. Arabia)

SOUTH ARABIAN TELEVISION SERVICE (Gov, Comm.)
Addr: Box 1264, Aden – **L.P:** Sales Mgr: N. Hassanali. Dir. Prgr: H. Safi. Dir. Tec: R. Hughes.
Stations: 625 lines: Al-Aineh chE4 0.5kW H, Al-Bargh chE10 0.5kW H, Khanfar Hill chE7 0.5kW H+2 satellites – **D.Prgr:** 15.30–19.30.
PYE Ltd, GB: Studio equip & tr's.

CAMBODIA

R. CAMBODGE-TELEVISION (Gov.)
Addr: 28 Ave Preah Mohaksatryany Kossomak, Phnom Penh – **L.P:** see radio – **Stations:** ch A8 5/2.5kW H – Bokor ch A11 100/25W (rel.) – **D.Prgr:** Tues, Fri 11.00–12.00.
Nippon Electric Company: TV tr. (Phnom Penh) and studio equip.

THE PEOPLES REPUBLIC OF CHINA

Stations:	Vision Mc	Sound Mc		Vision Mc	Sound Mc		Vision Mc	Sound Mc
Peking			Shenyang	93.25	99.75	Taiyuan	49.75	56.25
1st Prgr.	57.75	64.25	Changch.	57.75	64.25	Hofei	85.25	91.75
2nd Prgr.	77.25	83.75	Canton	57.75	64.25	Nanking	49.75	56.25
Shanghai	93.25	99.75	Sian	49.75	56.25	Wuhan	93.25	99.75
Tientsin	77.25	83.75						
Harbin	49.75	56.25						

Relay st's: Hangchow** 57.75/64.25Mc, Soochow** 57.75/64.25Mc, Tangshan* chR4, Wusih** 57.75/64.25Mc.
* repeating Peking; ** repeating Shanghai; Peking I: 5/2.5kW H.
Experimental st's: Anshan, Changsha, Chengtu (all 57.75/64.25 Mc), Chiamussu chR1, Foochow chR5, Fushun chR1, Hekang chR4, Kirin chR1, Kweiyang chR5, Lanchow chR1, Tsinan chR3, Tsitsihar 57.75/64.25Mc.

TAIWAN

NATIONAL EDUCATIONAL TV-STATION (Gov.)

Fi: By Gov. appropriation – **Addr:** 41 Nan-hai Rd, Taipei. **Te:** 36166 – **L.P:** Dir. Prgr: H. Y. Lee. Dir. Tec: T. C. Yü. Dir. Foreign Rel: D. H. Lin – **Station:** BET31 chA 11 4/2kW – **D.Prgr:** 04.50–07.30. Planned 8 low-powered repeater st's.

TAIWAN TELEVISION ENTERPRISE (Comm.)

Addr: 990 Chung Cheng Rd, Taipei. **Te:** 48685. **Cable:** Television – **L.P:** Dir. Tec: R. L. C. Huang. Dir. Foreign Rel: D. Chi.
Station: BET21 chA7 70/14kW H (+2 satellites) – **D.Prgr:** 09.30–15.30 (Sun also 04.00–05.00).

CYPRUS

CYPRUS BROADCASTING CORPORATION (Gov. subsidis.)

Addr: P.O. Box 1824, Nicosia – **L.P:** Dir. Prgr's: G. Mitsides. For other personnel: see radio.
Stations: Mt. Olympus chE6 40/8kW V – Mt. Sina Oros: chE8 40/8kW V.
D.Prgr: 17.30–20.00 (exc. Mon, Thurs) – The Marconi Company Ltd, GB; 1×0.25kW tr's Pye T.V.T, GB: Tr's studio equip.

HONG KONG

REDIFFUSION TV HONG-KONG (Comm.)

Addr: P.O. Box 121, Hong Kong – Closed circuit 405 line netw – **L.P:** see radio – **D.Prgr:** Mon–Fri 09.00–15.00. Sat/Sun 06.00–15.00. Two simultaneous wired Sce's (English/Chinese).
Pye T.V.T, GB: Studio equip.

INDIA

ALL INDIA RADIO – TELEVISION (Gov.)

Addr: Television Centre, All India Radio, Akashwani Bhawan, 5th Floor, Parliament St, New Delhi-1. **Te:** 30101 – **L.P:** Dir. TV Centre: P. V. Krishnamoorthy. Eng. in charge: M. R. Rao.
Station: New Delhi chE4 5/1kW H.
D.Prgr: Gen. Sce: D 13.30–14.30. For schools: May–March: Lessons in Chemistry and Physics for Higher Secondary Classes; Lessons in General Science for class 7th and 8th; lessons in English for class 6th, 7th and 8th; and lessons in Social Studies for class 8th only. Besides, Teachers Training Prgs in English and Science, at least once a month – **Pub:** School Television Pamphlet (English) annual.

INDONESIA

TV REPUBLIK INDONESIA (Gov.)

Ad: 18 min's a day – **Addr:** Jajasan Televisi RI, Senajan, Djakarta. **Te:** 71160. **Cable:** Telviri – **L.P:** Gen. Mgr: M. Arief. Dir. of Prgr: S. Soegito. Dir. Tec: Ir. Soemartono. Dir. of Adm: Drs. Sumado – **Station:** Djakarta chE9 10/5kW H.
D.Prgr: 12.00–15.00(Sat 16.00).

IRAN

TELEVISION OF IRAN (Comm.)

Addr: Box 1015, Av. Pahlavi, Tehran. **Te:** 621101. **Cable:** Televiran – **L.P:** St. Mgr: Dr. K. Mahmondi. Dir. Tec: G. Naderi. Sales Mgr: P. Partovi. Dir. Prgr: Mrs. Ramzi.
Stations: Teheran chA3 4/0.8kW H – Abadan chA3 12/2.4kW – Ahwaz ch A12 0.5kW (rel. Abadan) – **D.Prgr's:** 12.30–19.30.

IRAQ

BAGHDAD TELEVISION (Gov.)

Addr: Ministry of Guidance, Broadc. House, Salhiya, Baghdad – **L.P:** See radio – **Stations:** Salhiya chE8 5/1kW H – **D.Prgr:** 07.00–08.00, 15.00–21.00.

ISRAEL

Educational TV to be established during 1966 by the Israel Broadc. Authority.

JAPAN

NIPPON HOSO KYOKAI

(Public Corporation, non Gov, non-Comm.)
Monocrome and Color-TV:
Stations: NHK operates two nationwide TV networks: General and Educ. As of Oct. 1st 1965 there is a total of 560 st's: 284 General TV netw. and 276 for the Educ. TV netw.
Call: JO-TV. **Po:** H exc. Kainan st. V – **Ch:** J – **Def:** 525 – **Color-TV:** 198 st's for General netw. and 96 for Educ. netw. operate Color broadcasts. System: NTSC. [1]=General Sce. [2]=Educ. Sce.

Call	ch	kW/W
°) Sapporo		
[1]) IK	3	10
[2]) IB	12	10
Hakodate		
[1]) VK	4	1
[2]) VB	10	1
Asahikawa		
[1]) CG	9	1
[2]) CC	2	1
Wakkanai		
[1]) –	9	250W
[2]) –	2	250W
Nayoro		
[1]) –	4	250W
[2]) –	12	250W
Obihiro		
[1]) OG	4	1
[2]) OC	12	1
Kushiro		
[1]) PG	9	1
[2]) PC	2	1
Nakashibetsu		
[1]) –	4	250W
[2]) –	12	250W
Kitami		
[1]) KP	3	1
[2]) KD	12	1
Muroran		
[1]) IU	9	1
[2]) IT	2	1
°) Sendai		
[1]) HK	3	10
[2]) HB	5	10
Akita		
[2]) UK	6	5
[1]) UB	2	5
Yamagata		
[1]) JG	8	3
[2]) JC	4	3
Tsuruoka		
[1]) JP	3	1
[2]) JD	6	1
Morioka		
[1]) QG	4	3
[2]) QC	8	3
Kamaishi		
[1]) –	2	250W
[2]) –	12	250W

Call	ch	kW/W
Kitafukuoka		
[1]) –	5	250W
[2]) –	12	250W
Fukushima		
[1]) FP	9	3
[2]) FD	2	3
Wakamatsu		
[1]) HT	1	1
[2]) HY	3	1
Aomori		
[1]) TG	3	5
[2]) TC	5	5
Hachinohe		
[1]) –	9	500W
[2]) –	7	500W
*) Tokyo		
[1]) AK	1	50
[2]) AB	3	50
Niijima		
[1]) –	52	300W
[2]) –	50	300W
Kofu		
[1]) KG	1	3
[2]) KC	3	3
Fujiyoshida		
[1]) –	9	250W
[2]) –	2	250W
Nagano		
[1]) NK	2	1
[2]) NB	9	1
Iida		
[1]) –	4	250W
[2]) –	3	250W
Niigata		
[1]) QK	8	5
[2]) QB	12	5
Nagoya		
[1]) CK	3	10
[2]) CB	9	10
Shizuoka		
[1]) PK	9	1
[2]) PB	2	1
Hamamatsu		
[1]) DG	4	1
[2]) DC	8	1
Kanazawa		
[1]) JK	4	3
[2]) JB	8	3

Call	ch	kW/W
Fukui		
[1]) FG	9	3
[2]) FC	3	3
Toyama		
[1]) IG	3	3
[2]) IC	10	3
°) Osaka		
[1]) BK	2	10
[2]) BB	12	10
Fukuchiyama		
[1]) –	49	300W
[2]) –	46	300W
°) Hiroshima		
[1]) FK	3	10
[2]) FB	7	10
Onomichi		
[1]) DP	1	1
[2]) DD	7	1
Okayama		
[1]) KK	5	10
[2]) KB	3	10
Matsue		
[1]) TK	6	1
[2]) TB	12	1
Hamada		
[1]) –	2	500W
[2]) –	9	500W
Tottori		
[1]) LG	3	1
[2]) LC	4	1
Yamaguchi		
[1]) UG	9	1
[2]) UC	1	1
Matsuyama		
[1]) ZK	6	5
[2]) ZB	2	5
Nihama		
[1]) ZQ	2	250W
[2]) –	4	250W
Yawatahama		
[1]) –	8	250W
[2]) –	2	250W
Kochi		
[1]) RK	4	1
[2]) RB	6	1
Nakamura		
[1]) –	1	250W
[2]) –	11	250W

Call	ch	kW/W
Tokushima		
[1]) XK	3	1
°) Kumamoto		
[1]) GK	9	1
[2]) GB	2	1
Minamata		
[1]) –	5	500W
[2]) –	1	500W
°) Fukuoka		
[1]) LK	3	10
[2]) LB	6	10
Izuhara		
[1]) –	5	300W
[2]) –	11	300W
Kurume		
[1]) –	46	300W
[2]) –	54	300W
Gonoura		
[1]) –	59	300W
[2]) –	56	300W
Kitakyushu		
[1]) SK	6	1
[2]) SB	12	1
Nagasaki		
[1]) AG	3	1
[2]) AC	1	1
Sasebo		
[1]) AT	8	1
[2]) AY	2	1
Kagoshima		
[1]) HG	3	5
[2]) HC	5	5
Naze		
[1]) –	3	250W
[2]) –	4	250W
Setouchi		
[1]) –	6	500W
[2]) –	10	500W
Miyazaki		
[1]) MG	8	1
[2]) MC	12	1
Nobeoka		
[1]) –	4	250W
[2]) –	2	250W
Oita		
[1]) IP	3	3
[2]) ID	12	3
Imari		
[1]) –	51	300W
[2]) –	53	300W

+ 427 st's below 250Watt not mentioned.

D.Prgr: Gen-TV: 21.00–14.55. Educ-TV: W 22.00–08.00, 09.00–14.50. Sat/Sun 22.00–05.00, 09.00–14.50. (Classified by broadc. h's %: Gen-TV: N. 29.8, Educ. 9.9, Cultural 35.8, Entertainment 24.5. Educ-TV: Educ. 81.6, Culture 16.4, N 2.0%).
Color TV: Gen-TV: 14 hrs (weekly), Educ-TV: 6.5 hrs (weekly).
F.Pl: By the end of 1967 st's will be increased to 461 for the Gen-TV net and 461 for the Educ-TV net.

PRIVATELY OWNED COMMERCIAL TV-STATIONS

Call: JO-TV chJ. *=Color TV. 525 lines.
D.Prgr: General (approx) W: 23.00–24.00 or from 02.00–05.00, 08.00–15.00. Sun approx. 23.00 (or 00.00)–15.00.

Call	ch	kW(ERP)	Name
1) HR	1	10/2.5	Hokkaido Broadc. Comp, Sapporo:
1) –	1	1/0.25	21.50–14.50

Call	ch	kW(ERP)	Name
2) FX	1	10/2.5	Tokai Television Broadc. Co, Nagoya: 22.00–16.00
3) EL	1	1/0.25	Tsuruoka
4) IR	1	10/2.5	Tohoku Broadc. Co, Sendai
5) LR	1	3/0.75	Kita-Nihon Broadc. Co, Toyama
6) IF	1	10/2.5	Kyushu Asahi Broadc. Co, Fukuoka
7) CF	1	5/1.25	R. Minami-Nihon Broadc. Co, Kagoshima
8) JR	1	1/0.25	Shikoku Broadc. Co.
9) GR	1	5/1.25	R. Aomori Broadc. Co, Aomori: 21.45–14.00 (Sat 16.30)
10) JX	1	1/0.25	Nihon-Kai Telecasting Co, Tottori
11) AX	4*	50/12.5	Nippon TV-Network Co, Tokyo: 21.40–15.00(Sat 16.30)
12) FR	4	10/2.5	RKB Mainichi Broadc. Co, Fukuoka
13) OR	4	10/2.5	MBS Mainichi Broadc. System, Osaka: 21.30–16.00
14) ER	4	10/2.5	R. Chugoku Broadc. Co, Hiroshima: 21.50–15.00
15) PM	4	1/0.25	Shimonoseki
16) AR	5	10/2.5	Chubu-Nippon Broadc. Co, Nagoya: 21.55–16.45 (Sun 22.20–15.30)
17) DR	5	5/1.25	Broadc. System of Niigata, Niigata
18) KX	5	10/2.5	Sapporo TV Broadc. Co, Sapporo
19) JF	5	3/0.75	Yamanashi Broadc. System
20) GF	5	3/0.75	R. Oita Broadc. Co, Oita
21) UR	5	1	Nagasaki Broadc. Co, Nagasaki
22) DF	6	3	Iwate Broadc. Co, Morioka
23) KR	6*	50/12.5	Tokyo Broadc. System: 21.15–17.12 (Sun 22.20–16.25)
24) NR	6*	10/2.5	Asahi Broadc. Corp: 21.00–15.30
25) MR	6	3/0.75	Hokuriku Broadc. Co, Kanazawa
26) VO	6	1/0.25	Hamamatsu
1) –	6	1/0.25	Kushiro
1) HO	6	1/0.25	Hakodate
1) HW	6	1/0.25	Obihiro
27) PY	6	1/0.25	Wakamatsu
18) KY	7	1/0.25	Asahikawa
18) LY	7	1/0.25	Muroran
18) SY	7	1/0.25	Kushiro
28) DX	8	100/25	Kansai Telecasting Corp, Osaka: 21.30–15.55(Sat 16.30)
12) FO	8	1/0.25	Yahata
29) CX	8	50/12.5	Fuji Telecasting Co: 21.00–15.00
30) ZR	8	1	R. Kochi Broadc. Co, Kochi
31) KF	9	10/2.5	Nishi-Nippon Broadc. Co, Takamatsu
32) AF	10	5/1.25	Nankai Broadc. Co, Matsuyama
3) EF	10	3/0.75	Yamagata Broadc. Co, Yamagata
33) IX	10*	10	Yomiuri TV Broadc. Corp, Osaka
34) HF	10	10/2.5	San In Broadc. System, Yonago
35) EX	10	50/12.5	NET TV Netw. 21.40–14.45
36) HX	10	1/0.25	Nishi Nippon TV Corp, Kita Kyushu
37) NF	10	1/0.25	Miyazaki Broadc. Co, Miyazaki
14) EE	10	1/0.25	Onomichi
18) WL	10	1/0.25	Obihiro
21) MF	10	1	Sasebo
38) YR	11	10/2.5	Sanyo Broadc. Co, Okayama
39) TR	11	5/1.25	Akita Broadc. System, Akita
40) PR	11	3/0.75	Fukui Broadc. Co, Fukui
41) SR	11	1/0.25	Shinetsu Broadc. Co, Nagano
1) HE	11	1/0.25	Asahikawa
1) QF	11	1/0.25	Muroran
15) PF	11	1	Yamaguchi Broadc. Co, Tokyuama
26) VR	11	1/0.25	Shizuoka Broadc. System, Shizuoka
42) BF	11	1	Kumamoto Broadc. Co, Kumamoto
27) PX	11	3	Fukushima Television Broadc. Co
43) LX	11	10/2.5	Nagoya Broadc. Co. Nagoya: 22.00–15.00
18) KZ	12	1/0.25	Hakodate
44) NX	12	10/2.5	Hiroshima Television Hiroshima
44) NY	12	1/0.25	Onomichi
45) TX	12	50/12.5	Japan Science Foundation, Tokyo
46) OX	12	10/2.5	Sendai Broadc. Co.

1) North 1, West 5, Sapporo. L.P: St. Mgr: S. Abe. Dir. Tec: K. Kamo. (11 low power st's not mentioned) –
2) 7 Toschin-cho, Higashi-ku, Nagoya. L.P: St. Mgr: S. Yamaguchi. Dir. Tec: M. Nakayama (9 satellites) – 3) 5, 2 chome, Hatagomachi, Yamagata (2 satellites) – 4) 141, Nibancho, Higashi, Sendai (2 satellites) – 5) 1875 Ushijima, Toyama – 6) 6, 1-chome, Nagahamacho, Fukuoka (1 satellite) – 7) 17, Koraicho, Kagoshima (2 satellites) – 8) 32, 1-chome, Saiwaicho, Tokushima (3 satellites) – 9) 72 Fukuda, Matsumori, Aomori City (3 satellites) – 10) 2, 3-chome, Honmachi, Tottori (2 satellites).
11) 14 Niban-cho, Chiyoda-ku, Tokyo. L.P: Chmn: M. Shoriki. Pres: Y. Shimizu. Man. Dir: D. Fukui. Dir. Tec: M. Yoshikawa (4 satellites) – 12) 4, Watanabetori, Fukuoka – 13) Dojima, Kitaku, Osaka – 14) Motomachi 34, Hiroshima. L.P: Dir. Tec: T. Watanabe (5 satellites) – 15) Koenku, Tokuyama – 16) 4-15 Shinsakae-machi, Naka-ku, Nagoya. L.P: Dir: K. Igushi (8 satellites) – 17) 18, 3 chome, Kawagishi-cho, Niigata (6 satellites) – 18) 11, 1 chome, Nishi, Sapporo (1 satellite) – 19) 288, Hyakokucho, Kofu (1 satellite) – 20) 5-1315, Imazuru, Oita (5 satellites) – 21) 1-35 Kamimachi, Nagasaki (3 satellites) – 22) 1-57 Uchimaru, Morioka City (2 satellites).
23) 36 Hitotsugicho, Akasaka, Minato-ku, Tokyo. L.P: Chmn: T. Adachi. Pres: K. Shikakura. Dir. Prgr: N. Omori. Dir. Engineering: M. Yoshida. (2 relay st's).
24) Asahi Broadc. Corp, TV Station, Dojima, Kitaku, Osaka. Te: 361-1181. Cable: Jonrtv. L.P: See radio. Color TV 1 h weekly.
25) 128 Takaokamachi, Kanazawa (3 satellites) – 26) 46, Konyamachi, Shizuoka (5 satellites) – 27) 48 Miyama-cho, Fukushima (1 satellite).
28) 51 Umegae-cho, Kitaku, Osaka. L.P: St. Mgr: Y. Sawamura. Dir. Tec: K. Hirabayashi. Dir. Prgr's: K. Shibata. Film Buyer: N. Makihata.
29) 7, Kawadacho, Sinjuku-ku, Tokyo. L.P: Chmn: S. Mizuno. Pres: N. Shikanai. Exec. Man. Dir: H. Fukuda. Dir. Tec: E. Nishiyama (4 satellites+5 before April 1966).
30) 23 Honmachi, Kochi (3 satellites) – 31) 2-8 Marunouchi, Takamatsu – 32) 30-1, Masakimachi, Matsuyama (3 satellites).
33) 74, 2 chome, Iwai-cho, Kitaku, Osaka. L.P: St. Mgr: T. Okano. Dir. Tec: R. Kimura. Dir. Prgr (Film Buyer): Y. Tanaka.
34) 423 Nishi-Fukuhara, Yonago (2 satellites).
35) 55, Azabuzaimoku-cho, Minato-ku, Tokyo. L.P: Chmn: Y. Akao. Pres: N. Yamauchi. Man. Dir: N. Mutoh. Dir. Tec: M. Iwamoto (4 satellites+15 projected).
36) Yahataku, Kita Kyushu (3 satellites) – 37) 858, Shimo, Kitakatamachi, Miyazaki (1 satellite) – 38) 3-28, Uchisange, Okayama (4 satellites) – 39) Sanno-Ohdori, Akita (3 satellites) – 40) 35, Otemachi, Fukui (3 satellites) – 41) 1, 132 Yoshidamachi, Nagano (10 satellites) – 42) 30, Yamasakimachi, Kumamoto (4 satellites) – 43) 11-5 Minami Otsudori, Nagoya (2 satellites) – 44) 1-1, Shimonakamachi, Hiroshima (1 satellite) – 45) 2, Daikan-cho, Chiyoda-ku, Tokyo. L.P: Chmn: C. Kurata – 46) Shin-Sendai Bldg, Sendai (1 satellite).

KOREA (Rep.)

SEOUL TELEVISION STATION (Gov.)

Addr: 33, 3ka, Yejang-Dong, Chung-ku, Seoul. **Te:** 8-4127. **L.P:** St. Mgr: J. Y. Kim. Dir. Tec: N. S. Park. Dir. Prgr: I. K. Choi.
Station: Seoul chA9 13.4/6.7kW H – **D.Prgr:** 08.30–14.40.

JOONG-ANG TELECASTING NETWORK Co., Ltd (Comm.)

Addr: 52-5, 1-ka Choongmu-ro, Choong-ku, Seoul.
L.P: Pres: Lee, Heung Bae; Exec. Dir: Kim, Duck Po. Dir. Tec: Kim, Sang Kyung. Dir. Prgr: Kim, Kyu.
Stations: Seoul (HLCE) chA7 2/1kW – Pusan (HLKE) chA9 0.5/0.25 kW – **D.Prgr:** 08.30 (Sat 04.30, Sun 01.30)–15.00.

AMERICAN FORCES KOREA NETWORK (US Gov, Funds)

Addr: APO 96301, San Francisco, Calif, USA. **Te:** Yongsan 2495 – **L.P:** se radio.
Stations: Pol=H. *=separate film chain.
Seoul chA2 5kW – Hwaakson chA12 0.5kW – Kunsan chA2 0.12kW – Taegu chA3 0.5kW – Taejon chA12 0.05kW – *Pusan chA2 0.12kW – Pajuri chA4 0.05kW.
D.Prgr: 08.00(Sat 01.30, Sun 00.00)–16.00.

KUWAIT

TELEVISION OF KUWAIT (Gov.)

Addr: Ministry of Guidance and Inf, P.O. Box 193, Kuwait. **Te:** 39411. **Cable:** Alirshad – **L.P:** Asst. Under Secr TV: A. Al-Adwani. For other personnel: see radio.
Stations: Dasman chE8 0.1kW H – Mutlaa chE10 2/10kW – Rawdatein chE6 2kW – **Projected:** So. Repeater chE8.
D.Prgr: 15.30–20.30. **Test-tr's:** 12.00–14.00, 15.00–15.30.

LEBANON

COMPAGNIE LIBANAISE DE TELEVISION (Comm.)

Addr: B.P. 4848, Beirut – **L.P:** Pres. & Dir. Gen: Gen. S. Nofal. Vice Dir. Gen: B. M. Givadinovitch. Dir. Tec: N. Loutfi. Prgr's: W. Ezzedine.
Stations: Beirut 5kW H: chE7 (Arabic), chE9 (French/English) – Fih (No. Lebanon) 1.2kW V: chE2 (relay chE7) – Maasser el Chouf 60kW H: chE4 (relay chE7 & E9).
D.Prgr: 16.00–21.00(both channels).
Pub: TV Magazine (weekly).

TELE ORIENT (Comm.)

Addr: Box 5054, Beirut. **Te:** 284100. **Cable:** Telibor – **L.P:** Dir. Gen: L. Dahdah. Adv. Mgr: M. Norman. Chief Eng: M. Barhoumi. Dir. Public Rel: S. Abu Izzeddin.
Station: chE11 100/20kW H – chE5 2.5/0.5kW H.
D.Prgr: 16.00–21.00 in Arabic, English, French.

All the best...from the world's largest distributor of films produced for television—currently distributing more than 95 properties in 76 countries, at a rate of almost 200,000 market half hours annually. **CBS Films Inc.**

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MALAYSIA

MALAYSIAN TELEVISION SERVICE (Gov.)
Addr: Dep. of Television, c/o Dewan Tunku Abdul Rahman, Ampang Rd, Kuala Lumpur. **Te:** 23181. **Cable:** Tivimalaya – **L.P:** Dir: Ow Kheng Law. Head of Prgr: R. I. bin Raja Zahid. Eng. in charge: K. K. Loh – **Stations:** (System B 625 lines): Kuala Lumpur ch10 10/4kW H – Kuala Lumpur ch5 & 8 100/10kW – **D.Prgr:** 11.30–15.30. Pye TVT, GB: Tr, ant, studio equip. EMI Electronics, GB: Tr, Studio equip,

PAKISTAN

TELEVISION PROMOTERS COMPANY LTD (Semi-autonomous) – **Addr:** Rawalpindi, Pakistan – **L.P:** Exec. Dir: A. Qayyum. Chief Eng: S. A. Aziz. St. Mgr: A. B. Ahmed (Lahore), A. F. Kalimullah (Dacca).
Stations (System B 625 lines):
Lahore chE9 5/1.25kW H – Dacca chE9 5/1.25kW H – **D.Prgr:** 13.00–16.30.
Projected: Karachi chE4 (30kW), Islamabad chE4 (30kW) June 1966; Peshawar chE3, Chittagong chE5 Dec. 1967.

PHILIPPINES

DEPT. OF PUBLIC WORKS AND COMMUNICATIONS, Radio Control Office, Manila.
Stations:

Call	ch	kW(ERP)	Location
1) DYCB-TV	A3	2/0.5	Cebu City
1) DZAQ-TV	A3	10/2.5	Quezon City
2) DYXL-TV	A4	2/0.5	Bacolod City
3) DZTM-TV	A5	10/2.5	San Juan, Rizal
1) DZRT-TV	A6	10/2.5W	Dagupan City
4) DYSS-TV	A7	0.1/0.025	Cebu City
4) DZBB-TV	A7	5/2.5	Quezon City
2) DZXL-TV	A9	5/2.5	Quezon City
5) DZRP-TV	A10	10/0.5	Manila
6) DZRU-TV	A11	5/2.5	Quezon City
7) DZBS-TV	A12	0.5/0.125	Baguio City
8) DY-TV	A13	1/0.25	Cebu City
8) DZ-TV	A13	5/2.5	San Juan, Rizal
9) DZFU-TV	A14	0.4/0.1	Manila

1) **Bolinao Electronics Corp,** CBN Bldg, Intramuras, Manila.
2) **Chronicle Broadc. Network,** CBN Bldg, Intramuras, Manila.
3) **Associated Broadc. Corp,** TVT Bldg, Florentino Torres, Manila. **L.P:** St. Mgr: R. Diez. **D.Prgr:** 09.00–16.00.
4) **Loreto F. de Hemedes,** RBS Bldg, Diliman, Quezon City.
5) **Philippine Broadc. Service,** 5th Floor GSIS Bldg, Manila. **L.P:** Gen. Mgr: F. Trinidad. Dir. Tec: L. Quintos, J. Dy. **D.Prgr:** 10.00–12.00.
6) **Metropolitan Broadc. Co,** 694 Taft Avenue, Manila.
7) **R. Philippine Network Inc,** 1195 Florida St, Ermita, Manila.
8) **Inter Island Broadc. Corp,** Phil. Herald Bldg, Intramuros, Manila.
9) **Feati University,** Helios St, Sta. Cruz, Manila.

RYUKYU ISLANDS

RYUKYUS BROADCASTING CORPORATION (Comm.)
Addr: CPO Box 4, Naha, Okinawa – **L.P:** see radio
Station: KSAR-TV chA12 5/1.25kW.
D.Prgr's: 03.00–15.00 in Japanese & English.
NEC, Japan: 5kW tr, studio equip.

OKINAWA TELEVISION BROADC. LTD. (Comm.) – **Addr:** 1-chrome, Matsuyama-cho, Naha, Okinawa – **L.P:** Pres: T. Guschi-chan – **Station:** KSDW-TV chA10 5/2kW – **D.Prgr:** 03.00–15.00 in Japanese, English.
Nippon Electric Co, Japan: 5kW tr, studio equip.

SAUDI ARABIA

MINISTRY OF INFORMATION (Gov.)
Addr: Airport Rd, Jeddah – **L.P:** see radio.
Stations (System B 625 lines): Jeddah chE10 10/2kW H – Riaydh chE5 10/2kW H – **D.Prgr's:** 2 hrs daily (approx).

ARAMCO-TV (Non-comm, private Co.)
Fi: Arabian American Oil Co – **Addr:** Box 1359, Dharan. **Te:** 3061. **Cable:** Aramco – **L.P:** Producer: S. A. Al-Mozaini. Asst. Producer: S. M. Kubeisy. Chief Eng: L. R. Wilson.
Stations: chA2 12/6kW – chA13 0.5/0.25kW – **D.Prgr:** Sign on approx. 16.00 Prgr. time: Sat-Tues 4 ½ hrs, Wed/Fri 5 ½ hrs, Thurs 6 ½ hrs (times vary with Sun) – **Pub:** weekly schedule.

SINGAPORE

TELEVISION SINGAPURA (Gov.)
Fi: By Gov. appropriation – **Addr:** P.O. Box 1902, Singapore – **L.P:** see radio – **Stations:** Bukit Batok: chE5 (Singapore I), chE8 (Singapore II) 16kW – **D.Prgr:** chE5 10.30–16.00, chE8: 11.05–14.30.
The Marconi Company Ltd, GB; tr's: 2 × 5kW vision, 2 × 1kW sound – AWA, Australia, 2 × 2kW vision, 2 × 0.4kW sound – NEC Japan: TV-OBV equip.

SYRIA

SYRIAN TELEVISION SERVICE (Gov.) – **Addr:** Ommayyad Square, Damascus – **L.P:** see radio.
Stations: Damascus chE5 150/30kW, Homs chE7 30/6kW, Sheikh Dahor chE9 0.3/0.06kW, Aleppo chE5 30/6kW, Saraukhiyah chE8 2.25/0.45kW – **D.Prgr:** 16.00–22.00.

THAILAND

THAI TELEVISION CO. LTD (Semi Gov, Comm.)
Addr: Mansion B. Rajdamnern Ave, Bangkok. **Te:** 22273. **Cable:** Thaitevi.
L.P: Dir. Gen: Lt. Gen: K. Punagunta. Gen. Mgr: & Film Buyer: P. Hongsanand. Dir. Tec: A. Pojanapisute. Dir. Prgr: Ch. Rangsikul.
Stations (System RCA): Bangkok chA4 29/14.5kW H – **Relay st's:** Khonkaen chA5 33/16.5kW H, Lampang chA8 21.4/10.7kW H, Hadyai chA9 10.7/5.35kW H – **D.Prgr:** 10.00–17.00, Sat/Sun also 03.00–09.00.

THE ARMY TELEVISION HSA-TV (Gov.)
Addr: Paholyotin Rd, Bangkok. **Te:** 70428 – **L.P:** Dir. Gen: P. Cheunbonn. Dir. Tec: K. Kengradomying – **Stations:** Bangkok chA7 5kW V. Relay st: Saraburi chA5 – **D.Prgr:** D. 10.15–16.15. Sat also 01.00–06.00, Sun also 02.00–06.00. This st. broadc. to the public as an ordinary tv-st. PYE Ltd, GB: Tr, studio equip, O.B.Van.

TURKEY

ISTANBUL TEKNIK UNIVERSITESI (Gov. exp.)
Fi: By the Technical University – **Addr:** Elektrik Fakültesi, Yüsek Frekans Teknigi Kürsüsü, Istanbul. **Te:** 482250 – **L.P:** Prof. Dr. A. Ataman – **Station:** ChE4 50W H – **D.Prgr:** Thurs 15.00–17.00 only during the Academic Year.

PACIFIC

AUSTRALIA (Commonwealth of)

Standards: Def. 625 – Picture freq: 25 – Ch width: 7Mc FM.

AUSTRALIAN BROADCASTING COMMISSION (ABC)
National Television is controlled by the Australian Broadcasting Commission, which is responsible to the Postmaster-General, whose department controls the transmitters – **Addr:** Box 487, GPO, Sydney – **L.P:** see radio.
Stations: One each in Sydney (ABN), Melbourne (ABV), Brisbane (ABQ), Adelaide (ABS), Perth (ABW) and Hobart (ABT), Canberra (ABC). Operate on Australian ch2 on 63-70Mc 100/20kW exc. ABC Canberra ch3. **Po:** H exc. Canberra V.
ABHN Newcastle ch5, H – ABEV Bendigo ch1, V – ABRV Ballarat ch3, H – ABNT Launceston ch3, H – ABDQ Toowoomba ch3, H – ABWN Wollongong ch5A, H – ABCN Orange ch1, V – ABLV Latrobe Valley ch4, H – ABVG Goulbourn Valley ch3, V – ABRQ Rockhampton ch3, H – ABRN Richmond Tweed ch6, H – ABTQ Townsville ch3, H – ABNS Pt. Pirie ch1, V – ABMN Wagga Wagga ch0, H – ABAV Albury ch1, H – ABSW Bunbury ch5, H – ABDN Grafton-Kempsey ch2, H – ABSV Swan Hill ch2, V – ABWQ Maryborough ch6, V – ABUN Tamworth ch7, H – ABMV Mildura ch4, H – ABGS Mt. Gambier ch1, H – ABLN Broken Hill ch2, V – ABTN Taree ch1, V – ABCW Northam ch4, H.
D.Prgr's: Mon–Fri 01.30–01.50, 04.00–04.50, 06.45–13.00; Sat 03.30–13.00; Sun 01.00–02.15 (fortnightly church service), 03.00–12.50.

PRIVATELY OWNED COMMERCIAL TELEVISION STATIONS
Federation of Australian Commercial Television Stations,
Suite 404, 4th Floor, Caltex House, Sydney. **Te:** 27-8151. **Cable:** Telefed. **L.P:** Research Officer: A. B. Simpson.
Adv. accepted under conditions of Australian Broadc. Control Board. The first two letters are an abbreviation of the name of the licence, the third indicates the state and the numeral signifies the channel. All st's 100/20kW.

1) ATVO	5) WIN4	9) GMV6	13) ATN7
2) TVQO	6) AMV4	10) ADS7	14) BTQ7
3) RVN2	7) TVT6	11) TVW7	15) CTC7
4) NBN3	8) BTV6	12) HSV7	16) RTQ7

17) TNQ7 22) WBQ8 26) QTQ9 30) GLV10
18) ECN8 23) STW9 27) TNT9 31) DDQ10
19) CBN8 24) TCN9 28) NWS9 32) NRN10
20) RTN8 25) GTV9 29) NEN9 33) TEN10
21) BCV8 34) SAS10

1) **Austarama TV Pty Ltd**, P.O. Box 42, Nunawading, Vic. **Te:** 2326211. **Cable:** Austarama, Melbourne. **L.P:** Gen. Mgr: L. A. Mauger. Sales Mgr: G. J. Pengilly. **D.Prgr:** 23.00–13.30.
2) **Universal Telecasters Old, Ltd**, Sir Samuel Griffiths Dr, Brisbane. **Te:** 36-0366. **L.P:** Gen. Mgr: N. F. Carlyan. Sales Mgr: R. G. Archer. Film Buyers: N. Carlyan, R. Pennell. **D.Prgr:** 05.30–13.30.
3) **Newcastle Broadc. & TV Corp. Ltd**, P.O. Box 750, Mosbri Crescent, Newcastle. **Te:** 20321. **Cable:** Chantree. **L.P:** Gen. Mgr: K. Stone. Sales Mgr: K. Brown. **D.Prgr:** Mon–Fri 03.30–12.30, Sat 03.00–13.00, Sun 03.00–12.30.
4) **Riverina TV Ltd**, P.O. Box 69, Wagga Wagga. **Te:** 2088. **Cable:** Rivtel. **L.P:** Mgr & Film Buyer: W. P. Marsden. **D.Prgr:** 06.50 (Wed 02.30)–13.00(Sat 13.30).
5) **TV Wollongong Transmission Ltd**, P.O. Box. 500, Wollongong. **Te:** B-6444. **Cable:** Winteevee. **L.P:** St. Mgr: W. Lean. **D.Prgr:** 04.00(Sat 06.15, Sun 05.00)–13.00.
6) **Albury Upper Murray TV Ltd**, TV-Centre, Albury, NSW. **Te:** 51494. **Cable:** Ayemfour. **L.P:** Man. Dir: A. R. Kidd. Sales Mgr: D. H. Ward. **D.Prgr:** 06.45(Wed 02.45, Sun 05.00)–13.00.
7) **Tasmanian TV Ltd**, 52 New Town Rd, Hobart, Tasmania. **Te:** 80341. **Cable:** Tasteevee. **L.P:** Man. Dir: E. G. McRae. Film Buyer: D. L. Carter. **D.Prgr:** Mon, Fri 06.45–13.00. Tues-Thurs 04.00–13.00. Sat 06.30–13.00. Sun 02.30–12.45.
8) **Ballarat & Western Victoria TV Ltd**, P.O. Box 464, Ballarat. **Te:** 21666. **Cable:** Beeteesix. **L.P:** Gen. Mgr: B. F. Jackson. Sales Mgr: J. Ross. **D.Prgr:** Sun 02.00–13.50. Mon, Tues 07.00–13.10. Wed 02.00–13.10. Thurs, Fri 07.00–13.20. Sat 07.00–13.00.
9) **Goulbourn Murray TV Ltd**, P.O. Box 666, Shepparton. **L.P:** St. Mgr. & Film Buyer: P. L. Twomey. **D.Prgr:** Mon/Tues/Thurs 06.45–13.00, Wed 02.00–13.00, Fri/Sat 06.45–13.45, Sun 02.00–12.45.
10) **TV Broadcasters Ltd**, 125 Strangways Terrace, No. Adelaide, So. Australia. **Te:** 6-8591. **Cable:** Adseven. **L.P:** Gen. Mgr: K. A. MacDonald. Sales Mgr: W. K. Murphy. **D.Prgr:** 02.00–14.00 (Sat 06.00–14.00).
11) **TVW Ltd**, P.O. Box 9, Tuart Hill, We. Australia. **Te:** 291422. **Cable:** Teleview. **L.P:** Gen. Mgr. & Film Buyer: J. W. Cruthers. **D.Prgr:** 05.45–15.30 (Sat 06.30–16.00).
12) **Herald Sun TV Pty Ltd**, Dorcas & Wells Str, So. Melbourne. **Te:** 690771. **Cable:** Hertel. **L.P:** Mgr: K. S. Cairns. Sales Mgr: W. Powers. **D.Prgr:** 01.05 (or 01.20)–13.30 (Fri 13.15); Sat 00.30–13.45, Sun 01.10–12.30.
13) **Amalgamated TV Services Pty Ltd**, Television Centre, Epping, NSW. **Te:** WL 0111. **Cable:** Telecentre. Sydney. **L.P:** Gen. Mgr: J. H. Oswin. Sales Mgr: S. Piddington. **D.Prgr:** 02.00(Sat 22.00)–14.00. Sun 01.45–13.45.
14) **Brisbane TV Ltd**, Sir Samuel Griffith Dr, Mt. Cootha, Brisbane. **Te:** 360111. **Cable:** Beeteeque. **L.P:** Gen. Mgr: E. F. Allen. Sales Mgr: M. Morris. **D.Prgr:** 01.30–13.00 (Sat 06.00–13.25), Sun 02.00–13.00).
15) **Canberra TV Ltd**, P.O. Box 633, Canberra. **Te:** 40255. **Cable:** Ceeteecee. **L.P:** Gen. Mgr: G. K. Barlin. **D.Prgr:** 06.55–13.05 (approx). (Wed 02.00–12.45, Sun 07.00–13.00).
16) **Rockhampton TV Ltd**, P.O. Box 568, Rockhampton. **Te:** 8877. **Cable:** Arteeque. **L.P:** St. Mgr. & Film Buyer: B. Saunders. **D.Prgr:** 07.00–12.00(Fri 12.30).
17) **Telecasters No. Queensland Ltd**, P.O. Box 716, Townsville. **Te:** 6161. **Cable:** Teenq. **L.P:** St. Mgr. & Film Buyer: K. R. Christensen. **D.Prgr:** 06.45–12.00.
18) **East Coast Television Ltd**, Coper Str, Chatham, Taree, NSW. **L.P:** Dir; O. G. K. Sutherland
19) **Country TV Services Ltd**, Box 465, Orange. **Te:** 2082. **Cable:** Cebtes. **L.P:** Mgr: J. E. Ridley. Sales Mgr: A. Ridley. **D.Prgr:** 06.00 (Thurs 04.00)–12.30(Sat 13.00).
20) **Richmond Tweed TV Ltd**, P.O. Box 423, Lismore. **Te:** 2351. **Cable:** Richteevee. **L.P:** Man. Dir: L. T. Warrick. **D.Prgr:** 02.00 (Tues, Fri 04.30)–12.30. Sat 07.30–13.00. Sun 06.30–12.00.
21) **Bendigo & Ce. Victoria Telecasters Ltd**, P.O. Box 240, Bendigo. **Te:** 30584. **Cable:** Beneight. **L,P:** Gen. Mgr: F. A. McManus. **D.Prgr:** 06.30(Wed 01.55)–13.30. Sun 02.00–13.00.
22) **Wide Bay Burnett Television Ltd**, P.O. Box 30, Maryborough, Qld. **Te:** 2528. **L.P:** Gen. Mgr. & Film Buyer: F. T. Yates. **D.Prgr:** 07.00–12.15.
23) **Swan Television Ltd**, Hayes Ave, Tuart Hill. **L.P:** Gen. Mgr. & Film Buyer: R. J. Mercer. **D.Prgr:** 02.30–13.30.
24) **TV Corporation Ltd**, Artarmon Rd, Willoughby. **Te:** JF-0444. **Cable:** Diffusion Sydney. **L.P:** Chief Executive: K. G. Hall. Sales Mgr: I. W. Faircloth. **D.Prgr:** 02.00–13.30 (Sat 21.00–13.30, Sun 02.00–13.30).
25) **General TV Corporation Pty. Ltd**, P.O. Box 100, Richmond E.1, Vic. **Te:** 42-0201. **Cable:** Geeteevee Melbourne. **L.P:** Mgr: N. Dick. **D.Prgr:** W 01.30–13.55. Sat 22.00–15.30. Sun 02.00–13.20.
26) **Queensland TV Ltd**, Sir Samuel Criffith Dr, Mt. Cootha. **Te:** 360181. **Cable:** Queteenine Brisbane. **L.P:** Gen. Mgr: J. W. Mckay. Sales Mgr: B. Williams. **D.Prgr:** 01.30–13.00 (Sat 05.00–13.40, Sun 01.30–13.20).
27) **Northern TV Ltd**, P.O. Box 873, Launceston. **Te:** 2551. **Cable:** Netnine. **L.P:** Man. Dir: A. E. Evans. **D.Prgr:** 06.45(Wed 03.00, Thurs 04.45)–13.20. Sat 07.00–13.20. Sun 02.30–13.15.
28) **Southern TV Corporation Ltd**, 202-208 Tynte Str, No. Adelaide. **Te:** 69322. **Cable:** Newsnine. **L.P:** Gen. Mgr. & Film Buyer: W. L. C. Davies. **D.Prgr:** 02.30–14.00, Sat 06.30–14.00, Sun 02.30–13.45.
29) **TV New England Ltd**, P.O. Box 19, So. Tamworth, NSW. **Te:** 58253. **Cable:** Nenine. **L.P:** Man. Dir: E. Higginbotham. **D.Prgr:** 07.00–12.00.
30) **Gippsland Latrobe Valley Telecasters Ltd**, P.O. Box 220, Traralgon. 71366. **L.P:** Gen. Mgr: D. W. Smith. Sales Mgr: H. Lyon. **D.Prgr:** 07.30(Wed 04.00)–13.05. Sun 07.00–12.30.
31) **Darling Downs TV Ltd**, P.O. Box 34, Toowoomba. **Te:** 22288. **Cable:** Deedeeque. **L.P:** Gen. Mgr: S. I. Fitzpatrick. **D.Prgr:** 04.00–12.15 (or 12.30). Sun 05.30–12.15.
32) **Northern Rivers TV Ltd**, 71 Grafton Str, Coffs Harbour, NSW. **Te:** 1201. **Cable:** Enarten. **L.P:** Man. Dir. & Film Buyer: A. Cave. **D.Prgr:** 07.00(Wed 03.15–12.45.
33) **United Telecasters Sydney Ltd**, P.O. Box 10, Lane Cove, NSW. **Te:** 885555. **Cable:** Unitelcast. **L.P:** Gen. Mgr: A E. R. Fox. Film Buyer: D. F. C. Fleming. **D.Prgr:** 02.30–13.30.
34) **South Australian Telecasters Ltd**, 45 Park Terrace, Gilberton. **Te:** 84438. **Cable:** Sasten. **L.P:** Gen. Mgr: D. L. Hall. **D.Prgr:** 02.30–13.30.

Projected:

35) **Broken Hill TV Ltd** (BKN7), 235 Argent St, Broken Hill, NSW. (Late 1965).
36) **Sunrasia Television Ltd**, (STV8), 18 Deakin Ave, Mildura, Vic. **L.P:** Man. Dir: M. U. F. Folie (late 1965).
37) **South East Telecasters Ltd** (SES8), Mt. Gambier, So. Australia.
38) **South Western Telecasters Ltd** (BTN3), P.O. Box 112, Bunbury, We. Australia. **L.P:** Secr: J. R. Fisher (late 1965).
39) **Mackay TV Development Pty Ltd** (ch6), 38 Gordon St, Mackay, Qld. (1966).
40) **Murrumbidgee TV Ltd** (MTN9), Griffith, NSW (1966).
41) **Far Northern TV Pty Ltd** (FNQ10), 34 Abbott St, Cairns, QLD. (1966).

AMERICA'S DAY BEGINS IN GUAM USA

KUAM - Television channels 8-10-12
ABC-NBC-CBS Television Networks

KUAM - Radio 610 kc 1000 watts

PACIFIC BROADCASTING CORP.
P. O. Box 368 Agana Guam USA

H. Scott Killgore	**President**
S. N. Rubin	**Treasurer**
William Nielsen	**Vice Pres. & Gen. Mgr.**

New York Office	San Francisco Office
211 East 43rd St.	100 California St.
New York, N. Y.	San Francisco, Calif.
Tel: MU 7-8436	Tel: YU 2-9933

The eyes and ears of the Marianas Islands

GUAM

KUAM TELEVISION *(Comm.)*
Addr: P.O. Box 368, Agana. **Cable:** Kuam. **L.P:** Pres: H. Scott Killgore. Vice Pres. & Gen. Mgr: W. B. Nielsen. Res. Mgr: E. A. Olson **Stations:** chA8, A10 0.43/0.22kW V – **D.Prgr:** 07.30–14.00 (Sat 23.00–14.00).

HAWAII

All St's Comm – Po: Vertical.
HAWAIIAN BROADCASTING SYSTEM – **Addr:** P.O. Box 581, Honolulu – **L.P:** Gen. Mgr: J. Herold. Sales Mgr: J. Thompson. **Stations:** Honolulu KGMB-TV ch A3/A9/108/60kW. **Satellites:** Wailuku KMAU-TV ch A3 6/3kW, Hilo KHBC-TV ch 9 1/0.5kW, Lihue ch 70 UHF, Kalaheo K82AM ch 82 UHF (Systems: CBS & KGMB) – **D.Prgr:** *16.00–10.00 in* E, J, P.

KAISER BROADCASTING – **Addr:** 1290 Ala Moana Blvd, Honolulu. **Te:** 53-991 – **L.P:** Gen. Mgr: D. Kawakami. Sales Mgr: St. Anderson. **Station:** Honolulu KHVH-TV chA4 (color) 26.3/13.2 kW. **Satellites:** *Hilo KHJK-TV chA13 2/1kW*, Wailuku KMVI-TV chA12 30/15kW, Honohina K76BB ch76 UHF, Lihue K74BC ch74 UHF, Kulani K70BS ch70 UHF, Naalehu K74 UHF – **D.Prgr:** 16.00–10.00 in E.

RADIO HONOLULU – *Addr: 1170 Auahi St, Honolulu.* **Cable:** Radhon 140HU. **Te:** 562-366 – **L.P:** Gen. Mgr: J. D. Keating. Sales Mgr: C. J. Thrumston. **Station:** Honolulu KONA-TV chA2 (color) 30.7/15.4kW. **Satellites:** Wailuku KALA-TV ch7 (color), Lihue K78AR ch78 UHF, Hilo KALU-TV chA11 (color) – **D.Prgr:** 22.00–10.00 in E, C, F.

HAWAIIAN PARADISE PARK CORPO – **Addr:** 2227A Kalakua Ave, Honolulu 15. **Te:** 933-823 – **L.P:** Gen. Mgr: R. A. Greer Jr – **Station:** KTRG-TV chA13 30.7/15.4kW – **D.Prgr:** W 02.20(Sat 01.30)–09.00 in E, C, F.

NEW CALEDONIA

OFFICE DE RADIODIFF.-TELEVISION FRANCAISE
Addr: B.P. 327 Noumea. **L.P:** see radio.
Stations (System K 625 lines): 0.05kW
ch4 175.25/181.75Mc, ch6 191.25/197.75Mc, ch8 207.25/213.75Mc – **D.Prgr:** 08.00–10.45(Sun 07.30–11.15 approx).

NEW ZEALAND

NEW ZEALAND BROADCASTING CORPORATION
(Statutory Public Body)
Fi: by license payments and adv. revenue Tues, Wed, Thurs, Sat – **Addr:** P.O. Box 98, Wellington. **Te:** 48.200. **Cable:** Broadserv – **L.P:** Dir. TV: N. Palmer. For other personnel: see radio – **Stations:** Auckland AKTV ch2 100/20kW H – Wellington WNTV ch1 10/2 kW H – Christchurch CHTV ch3 100/20kW H – Dunedin DNTV ch2 10/2kW H+two 100kW repeaters, 1 low-power repeater and 5 low power translators –
D.Prgr: Mon–Thurs 05.00–11.00, Fri 05.00–12.00, Sat 02.00–12.00, Sun 02.00–11.00.
F.Pl: *Wellington 100kW (ERP); Dunedin 50kW (ERP);* +1kW translators at Whangarei, Kaikoke, Kaitaia, New Plymouth & Mt. Studholme.
Studio Equip: Ampex Videotape, USA: Auckland, Wellington, Christchurch, Dunedin – RCA, USA: Videotape Telecine: Auckland, Dunedin – Marconi, G.B: Cameras, studio equip: Auck, Wellington, Christchurch and Dunedin – EMI, GB: Cameras, studio equip: Auckland, Wellington, Christchurch and Dunedin – PYE, GB: studio equipment: Auckland, Wellington, Christchurch and Dunedin – OB Vans: Auckland, Wellington, Christchurch and Dunedin – all Marconi, G.B.

SAMOA (American)

TELEVISION OF SAMOA *(Gov.)*
Addr: Dept. of Education, Pago Pago. **Te:** 2438 – **L.P:** Mgr: B. L. MacKenzie. Dir. Tec: H. Cronin – **Stations:** chA2/A4/A5 50kW V – Satellites: chA7/A11 0.01kW H (Feb 1965) – **D.Prgr:** 18.30–02.00 (for schools), 05.30–08.30 – **Projected:** chA8/A10/A13 50kW V (Jan 66), chA3/A6/A12 0.01kW H.

TAHITI

OFFICE DE RADIODIFF.-TELEVISION FRANCAISE
Addr: Rue Dumont d'Urville 410, Papeete. **L.P:** see radio.
Stations (System K625 lines): 0.05kW
ch4 175.25/181.75Mc, ch6 191.25/197.75Mc, ch8 207.25/213.75Mc – **D.Prgr:** 05.00–08.00.

NORTH AMERICA

BERMUDA

BERMUDA RADIO & TELEVISION CO. LTD. (Comm.)
Addr: Box 452, Hamilton – **L.P:** see radio.
Station (System RCA): ZBM-TV chA10 16/4kW H – **D.Prgr:** 20.00–03.15 (Thurs, Fri, Sat 04.30).

CAPITAL BROADCASTING CO. LTD.
Addr: Box 652, Hamilton. **Te:** 2-4444. **Cable:** Capbro – **L.P:** see radio – **Station** (System PYE): ZFB-TV chA8 5kW H – **D.Prgrs:** 22.00–03.30. PYE, Ltd, GB: Tr, Cameras, Studio equip.

CANADA

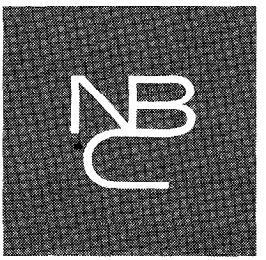
CANADIAN BROADCASTING CORPORATION
(Publicly-owned)
Abbreviations: see radio.
Addr: Nfld. Reg: CBNT, P.O. Box 5490, St. John's, Nfld. – CFSN-TV, P.O. Box 190, Stephenville, Nfld. CFLA-TV, USAF Side, Goose Bay Airport, Goose Bay, Lab. CBYT, Box 610, Corner Brook – **Quebec Reg:** CBFT, CBMT, 1425 Dorchester Str. West, Montreal. CBVT, Palais Montcalm, Quebec City – **Maritime Reg:** CBHT, P.O. Box 3000, Halifax, N.S. CBAFT, P.O. Box 950, Moncton. N.B. – **Prairie Reg:** CBWT, CBWFT, P.O. Box 160, Winnipeg, Man. CBXT, P.O. Box 555, Edmonton, Alta – **B.C. Reg:** CBUT, 701 Hornby Str, Vancouver – **Ontario:** English Networks HDQ, CBLT, P.O. Box 500, Toronto – **Ottawa Area:** CBOT, CBOFT, P.O. Box 3220, Station "C", Ottawa.
L.P: Nfld. Reg: CBNT, CBYT: Dir: W. F. Galgay; Mgr. CBYT: C. V. *Hierlihy – Quebec Reg: CBFT/CBMT: Asst. Gen. Mgr: French* Netw: R. David. Asst. Prgr. Dir: J. Landry. Dir. Prgr. English Netw: K. Davey – CBVT: Mgr: R. Dussault – English Netw. and Toronto Area: Dir: A. K. Morrow. Asst. Gen. Mgr: R. W. Mc Gall. Maritime Reg: CBHT: Dir: S. R. Kennedy; Prgr. Dir. CBHT: W. Harper; CBAFT: Mgr: G. Thériault – Prairie Reg: Dir: J. R. Finlay. Prgr. Dir. CBWT: D. E. Cameron; CBWFT: M. Desaulniers. CBXT: R. Horley – B.C. Reg: Dir: K. P. Caple; CBUT: Prgr. Dir: E. R. Whitehouse – Ottawa Area: CBOT-CBOFT: Dir: J. Dunn; Prgr. Dir: D. Townsend.
CBC Stations: Po: V – E=English Net, F=French Net – Def. 525.

Stations	Call	chA	kW(ERP)	Sce.
Montreal	CBFT	2	100/50	F
Vancouver	CBUT	2	47.6/25.4	E
Halifax	CBHT	3	5.5/2.8	E
Winnipeg	CBWT	6	100/50	E
Ottawa	CBOT	4	50.1/26.7	E
Corner Brook	CBYT	5	0.197/0.098	E
Edmonton	CBXT	5	318/159	E
Montreal	CBMT	6	100/60	E
St. John's	CBNT	8	196/98	E
Quebec	CBVT	11	173/87	F
Toronto	CBLT	6	99.5/53.5	E
Winnipeg	CBWFT	3	59/35.2	F
Stephenville	CFSN-TV	8	0.294/0.147	E
Goose Bay	CFLA-TV	8	0.87/0.435	E
Ottawa	CBOFT	9	31/17	F
Moncton	CBAFT	11	10.06/5.03	F

H of tr: approx. 15.00–06.00.
Network Rel. dt's: CBFST (Sturgeon Falls, Ont.) ch7 9.75/5.27kW – CBWAT (Kenora, Ont.) ch8 9.3/5.5kW – CBWBT (Flin Flon, Man.) ch10 6.8/3.4kW – CBXAT (Grande Prairie, Alta.) ch10 36/18kW – CBFOT (Timmins Ont.) ch9 16/8kW – CBFCT (Cheticamp, N.S.) ch10 7.9/4.0kW – CBUBT (Cranbrook, B.C.) ch10 1.1/0.505kW – CBUAT (Trail, B.C.) ch11 0.187/0.124kW.
Rebroadc. st's not mentioned.
D.Prgr: Approx. 20.00–22.00, 05.00–07.00.
Ampex Videotape, USA delivered to: CBC (Calgary, Edmonton, Halifax, Montreal, Ottawa, Toronto, Vancouver, Winnipeg) CFCN-TV, CHCT-TV, CJPM-TV, CFRN-TV, CBHT-TV, CJCH-TV, CHCH-TV, CKRS, Cent. ont. TV, CFCF-TV, CFTM-TV, CJOH-TV, CFCM-TV, CKMI-TV, TV Quebec, CKCK-TV, CKRN-TV, CHSJ-TV, CKSO-TV, CTV Network, CFTO, CHAN-TV, CKLW-TV, CJAY-TV, York TV, CKOS-TV.
The Marconi Company, Ltd, GB-TV tr's: Fox River 1×3W, 1 Amplifier 50W, Montreal CFTM 2×4kW, 2×1kW, Montreal CFCF 2×4, 2×1kW, Amplifiers 2×18kW, 2×10kW, Ottawa 1×4, 2×5kW, Amplifier 18kW, Ottawa CBC 5kW, Vancouver 5kW – Ant: Montreal. Studio Equip: Montreal, Montreal CFTM, Montreal CFCF, Ottawa CBC, Vancouver CBC – OBV: Vancouver CBC – Pye TVT, GB: Studio equip, OBV.

NBC INTERNATIONAL: UNIQUE GIANT IN A UNIQUE FIELD

In the realm of world communications, television enjoys a privileged role. No other medium can unite peoples of different lands and backgrounds so quickly, intimately and effectively. And in the field of international television, you will find one organization whose resources and experience have placed it in a class by itself. ■ That organization is NBC International. In more than 80 regions—representing more than 300 stations over the globe—NBC International renders an unequalled service ranging from the construction of TV facilities to the distribution of TV programs. It is a service that not only grows with the times, but anticipates them as well. Color TV, for example, is mushrooming in popularity throughout the world; and—because of its association with the National Broadcasting Company, pioneer in color TV—NBC International is uniquely prepared to satisfy this increasing demand for color. Uniqueness, in this instance, begins at home, where NBC is the Full Color Television Network. ■ In *all* instances, NBC International has brought a pioneering spirit to global communications—and has become, in consequence, the leading broadcaster in the international field.



NBC INTERNATIONAL

PRIVATELY OWNED COMMERCIAL TV STATIONS

Rebroadc.st's and st's less 5kW not mentioned.

	Call	chA	kW		Call	chA	kW
1)	CHCT-TV	2	100/50	30)	CHEK-TV	6	100/50
2)	CJIC-TV	2	28/15	31)	CJON-TV	6	62/33
3)	CKCK-TV	2	100/53.5	32)	CJPM-TV	6	61/36.5
4)	CKCW-TV	2	25/15	33)	CHLT-TV	7	170/100
5)	CKPR-TV	2	55.4/30.2	34)	CJAY-TV	7	325/180
6)	CKSA-TV	2	116/58	35)	CJLH-TV	7	96.1/44.9
7)	CFRN-TV	3	180.3/90.43	36)	CKRT-TV	7	49/24.5
8)	CJBR-TV	3	49.3/28	37)	CFQC-TV	8	180/100
9)	CKOS-TV	3	5/2.5	38)	CHAN-TV	8	164/81
10)	CKVR-TV	3	100/50	39)	CKNX-TV	8	90/55
11)	CFCM-TV	4	100/50	40)	CKSS-TV	8	23/11.5
12)	CFCN-TV	4	100/50	41)	CFTO-TV	9	325/162
13)	CHAB-TV	4	48/25	42)	CFXU-TV	9	73/37
14)	CHSJ-TV	4	100/50	43)	CHRE-TV	9	140/75
15)	CJCB-TV	4	100/60	44)	CKBL-TV	9	153/92
16)	CJCN-TV	4	26/13	45)	CKLW-TV	9	178/107
17)	CKRN-TV	4	115/57.5	46)	CFCH-TV	10	28.5/14.25
18)	CHAU-TV	5	100/50	47)	CFPL-TV	10	325/195
19)	CHOV-TV	5	19.1/9.5	48)	CFTM-TV	10	325/162.5
20)	CJCH-TV	5	52.8/26.4	49)	CHCH-TV	11	230/143
21)	CJDC-TV	5	5/2.5	50)	CKWS-TV	11	130/78
22)	CJFB-TV	5	13.3/6.65	51)	CFCF-TV	12	325/160
23)	CKBI-TV	5	61/36.5	52)	CHEX-TV	12	139/83.4
24)	CKMI-TV	5	16/8	53)	CKAM-TV	12	141/77
25)	CKSO-TV	5	30/16	54)	CKRS-TV	12	20/10
26)	CKX-TV	5	54/27	55)	CFCY-TV	13	38.6/19.3
27)	CFCL-TV	6	100/50	56)	CJOH-TV	13	325/160
28)	CHAT-TV	6	6/3	57)	CKCO-TV	13	325/160
29)	CHCA-TV	6	26/13	58)	CKTM-TV	13	255/162.5

1) **Calgary TV Ltd**, 955 Rideau Rd, Calgary, Alta – 2) **Hyland Radio-TV Ltd**, 119 East St, Sault Ste. Marie, Ont – 3) **Transcanada Communications Ltd**, 1853 Hamilton St, Regina, Sask – 4) **Moncton Broadc. Ltd**, Knights of Pythias Bldg, Moncton, N.B – 5) **Thunder Bay Electronics Ltd**, 87 No. Hill St, Port Arthur, Ont – 6) **CHSA-TV Ltd**, 5036 – 50th St, Lloydminster, Alta – 7) **Sunwapta Broadc. Co. Ltd**, Broadc. House, Edmonton, Alta. **D.Prgr:** 17.00–08.00 – 8) **La Radio du Bas St. Laurent Inc**, 13 St. Jean Baptiste, Rimouski, Que – 9) **Yorkton TV Co. Ltd**, 95 East Broadway, Yorkton, Sask. **L.P:** Gen. Mgr. & Film Buyer: G. S. Skinner. **D.Prgr:** 14.00–07.00 – 10) **Ralph Snelgrove TV Ltd**, Box 519, Barrie, Ont. **L.P:** St. Mgr: H. J. Snelgrove. Film Buyer: J. Mattenley. **D.Prgr:** 14.00–06.00 – 11) **Télévision du Quebec (Canada) Ltée**, 1000 Myrand Ave, Quebec 10, Que. **L.P:** Gen. Mgr: J. A. Pouliot. Film Buyer: G. Lovett. **D.Prgr:** ch4 16.00–05.45 (French), ch5 14.30–04.10 (English) (see 24) – 12) **CFCN-TV Ltd**, Broadc. House, Calgary, Alta. **L.P:** Pres: H. G. Love. Dir. Tec: R. W. Lamb. Film Buyer: E. W. Chapmann. **D.Prgr:** 15.00–08.00 – 13) **CHAB Ltd**, Johnston Bldg, Moose Jaw, Sask. **D.Prgr:** 17.00–06.00 – 14) **New Brunswick Broadc. Co. Ltd**, 14 Church St, Saint Johns, N. B. – 15) **Cape Breton Broadc. Ltd**, 318 Charlotte St, Sydney, N.S – 16) **Newfoundland Broadc. Co. Ltd**, Grand Falls, Nfld – 17) **R. Nord Inc**, 70 rue Gamble, Rouyn, Que – 18) **Télévision de la Baie des Chaleurs Inc**, Carleton, Que. **L.P:** St. Mgr: L. Vocelle. **D.Prgr:** 18.00–06.00 – 19) **Ottawa Valley TV Co. Ltd**, 319 Pembroke St, East, Pembroke, Ont. **L.P:** Pres: E. G. Archibald. Film Buyer: B. Duval. **D.Prgr:** 15.00–05.40.
20) **CJCH Ltd**, 2885 Robbie St, Halifax, N. S. **D.Prgr:** Mon–Fri 14.30–05.00, Sat 15.00–06.00, Sun 17.00–04.30 – 21) **R. St. CJDC**, Dawson Creek, B. C – 22) **Swift Current Telecasting Co. Ltd**, Swift Current, Sask – 23) **Central Broadc. Co. Ltd**, 10th St, Prince Albert, Sask – 24) see 11) – 25) **Cambian Broadc. Ltd**, 336 Ash St, Sudbury, Ont. **D.Prgr:** 13.00–07.00 – 26) **Western Manitoba Broadcasters Ltd**, 2940 Victoria Ave, Brandon, Man – 27) **CFCL-TV**, P.O. Box 620, Timmins, Ont. **L.P:** St. Mgr: R. Barette – 28) **Monarch Broadc. Co. Ltd**, Box 760, Medicine Hat, Alta. **L.P:** St. Mgr: F. G. Gunter. Dir. Tec: S. Gaffney. **D.Prgr:** 17.00–08.30 – 29) **CHCA-TV Ltd**, Box 668, Red Deer, Alta. **L.P:** St. Mgr: W. Wilks. Dir. Tec: J. Colter. **D.Prgr:** 15.30–07.30 – 30) **CHEK TV Ltd**, 3693 Epsom Dr, Victoria, B. C – 31) see 16) – 32) **CJPM TV Inc**, 23 Racine St. East, Chicoutimi, Que – 33) **La Tribune Inc**, 221, rue Dufferin, Sherbroke, Que – 34) **Ch. 7 TV Ltd**, Polo Park, Winnipeg, Man – 35) **Lethbridge TV Ltd**, P.O. Box 1120, Lethbridge, Alta. **L.P:** Gen. Mgr: N. Botterill. **D.Prgr:** 17.00–07.30 (approx.) – 36) **CKRT-TV Ltd**, 1 Christophe Colomb, Rivière du Loup, Que – 37) **CFQC TV Ltd**, 216 First Ave North, Saskatoon, Sask – 38) **British Columbia TV Broadc. System Ltd**, Burnaby, B. C – 39) **R. St. CKNX Ltd**, Cnr. Carling Terrace, Wingham, Ont. **D.Prgr:** 17.00–06.30 – 40) **Yorkton TV Co. Ltd**, 95 East Broadway, Yorkton, Sask – 41) **Baton Broadc. Ltd**, P.O. Box 9, Toronto 16, Ont. **L.P:** Gen. Mgr: W. O. Crampton. **D.Prgr:** 13.00–05.00 – 42) **Atlantic TV Co. Ltd**, Antigonish, N. S – 43) **CHAB Ltd**, Johnstone Bldg, Moose Jaw, Sask – 44) **La Compagnie de Radiodiff. de Matane Ltd**, Matane, Que – 45) **Western Ontario Broadc. Co. Ltd**, 825 Riverside Dr. West, Windsor, Ont – 46) **Tel-Ad Co. Ltd**, Callander, Ont – 47) **London Free Press Printing Co. Ltd**, 442-446 Richmond St, London, Ont – 48) **Télé-Metropole Corp**, 1405 Maisonneuve St, Montreal. **L.P:** St. Mgr: R. Giguère. **D.Prgr:** W 14.30(Sat 14.00)–05.40. Sun 15.30–05.10 – 49) **Niagara TV Ltd**, 163 Jackson St, Hamilton, Ont. **L.P:** Dir. Gen: K. D. Soble. **D.Prgr:** 12.00–05.00 – 50) **Frontenac Broadc. Co. Ltd**, 170 Queen Str, Kingston, Ont. **L.P:** Gen. Mgr: R. Hofstetter. Film Buyer: D. Lawrie. **D.Prgr:** 14.00–06.30 – 51) **Canadian Marconi Co.** 405 Ogilvy Ave, Montreal 15. **D.Prgr:** 14.30–06.00 – 52) **Kawartha Broadc. Co. Ltd**, P.O. Box 659, Peterborough, Ont. **L.P:** St. Mgr: G. Schele. **D.Prgr:** 15.00–06.00 – 53) **Moncton Broadc. Ltd**, Moncton, N. B – 54) **R. Saguenay Ltd**, 179 Sir Wilfrid Laurier, Jonquiere, Que – 55) **The Island R. Broadc. Co. Ltd**, 85 Kent St, Charlottetown, PEI. **L.P:** St. Mgr: R. F. Large. **D.Prgr:** 18.00–04.15 – 56) **Bushnell TV Co. Ltd**, TV House, Ottawa 5. **L.P:** St. Mgr: S. W. Griffiths. Film Buyer: P. Francis. **D.Prgr:** 11.30–05.30 – 57) **Central Ontario TV Ltd**, 864 King St, Kitchener, Ont – 58) **TV St. Maurice, Inc**, P.O. Box 277, Trois Rivieres, Que – **L.P:** Gen. Mgr: H. Audet. Film Buyer: A. Aubichon. **D.Prgr:** 15.00–06.00.

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Stations

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WAPI-TV (Ch 13) Birmingham
WBRC-TV (Ch 6) Birmingham
*WBIQ (Ch 10) Birmingham
WMSL-TV (Ch 23) Decatur
WTVY (Ch 4) Dothan
*WDIQ (Ch 2) Dozier
WOWL-TV (Ch 15) Florence
WAAY-TV (Ch 31) Huntsville
WHNT-TV (Ch 19) Huntsville
WALA-TV (Ch 10) Mobile
WKRG-TV (Ch 5) Mobile
WCOV-TV (Ch 20) Montgomery
WKAB-TV (Ch 32) Montgomery
WSFA-TV (Ch 12) Montgomery
*WAIQ (Ch 26) Montgomery
*WCIQ (Ch 7) Mount Cheaha State Park
WSLA-TV (Ch 8) Selma

ALASKA

KENI-TV (Ch 2) Anchorage
KTVA (Ch 11) Anchorage
KFAR-TV (Ch 2) Fairbanks
KTVF Ch 11) Fairbanks
KINY-TV (Ch 8) Juneau

ARIZONA

KOOL-TV (Ch 10) Phoenix
KPHO-TV (Ch 5) Phoenix
KTAR-TV (Ch 12) Phoenix
KTVK (Ch 3) Phoenix
*KAET (Ch 8) Phoenix
KGUN-TV (Ch 9) Tucson
KOLD-TV (Ch 13) Tucson
KVOA-TV (Ch 4) Tucson
*KUAT (Ch 6) Tucson
KBLU-TV (Ch 13) Yuma
KIVA (Ch 11) Yuma

ARKANSAS

KTVE (Ch 10) El Dorado
KFSA-TV (Ch 5) Fort Smith
KAIT-TV (Ch 8) Jonesboro
KARK-TV (Ch 4) Little Rock
KATV (Ch 7) Little Rock
KTHV (Ch 11) Little Rock

CALIFORNIA

KBAK-TV (Ch 29) Bakersfield
KERO-TV (Ch 23) Bakersfield
KLYD-TV (Ch 17) Bakersfield
KHSL-TV (Ch 12) Chico
KIEM-TV (Ch 3) Eureka
KVIQ-TV (Ch 12) Eureka
KAIL-TV (Ch 53) Fresno
KFRE-TV (Ch 30) Fresno
KICU-TV (Ch 43) Fresno
KJEO-TV (Ch 47) Fresno
KMJ-TV (Ch 24) Fresno
*KCET (Ch 28) Hollywood
KABC-TV (Ch 7) Los Angeles
KCOP- (Ch 13) Los Angeles
KHJ-TV (Ch 9) Los Angeles
KPOL-TV (Ch 22) Los Angeles
KMEX-TV (Ch 34) Los Angeles
KNBC (Ch 4) Los Angeles
KNXT (Ch 2) Los Angeles
KTLA (Ch 5) Los Angeles
KTTV (Ch 11) Los Angeles
KTVU (Ch 2) Oakland
KRCR-TV (Ch 7) Redding
KCRA-TV (Ch 3) Sacramento
KXTV (Ch 10) Sacramento
*KVIE (Ch 6) Sacramento
KSBW-TV (Ch 8) Salinas
*KVCR-TV (Ch 24) San Bernardino
KFMB-TV (Ch 8) San Diego
KOGO-TV (Ch 10) San Diego
KGO-TV (Ch 7) San Francisco
KPIX (Ch 5) San Francisco
KRON-TV (Ch 4) San Francisco
*KQED (Ch 9) San Francisco
KNTV (Ch 11) San Jose
KEYT (Ch 3) Santa Barbara
KCOY-TV (Ch 12) Santa Maria

COLORADO

KKTV (Ch 11) Colorado Springs
KRDO-TV (Ch 13) Colorado Springs
KBTV (Ch 9) Denver
KCTO (Ch 2) Denver
KLZ-TV (Ch 7) Denver
KOA-TV (Ch 4) Denver
*KRMA-TV (Ch 6) Denver
KREX-TV (Ch 5) Grand Junction
KOAA-TV (Ch 5) Pueblo

CONNECTICUT

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WHNB-TV (Ch 30) Hartford
WTIC-TV (Ch 3) Hartford
WNHC-TV (Ch 8) New Haven
WATR-TV (Ch 20) Waterbury

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WMAL-TV (Ch 7) Washington
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*WJCT (Ch 7) Jacksonville
WJXT (Ch 4) Jacksonville
WCKT (Ch 7) Miami
WLBW-TV (Ch 10) Miami
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WRDW-TV (Ch 12) Augusta
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WRBL-TV (Ch 3) Columbus
WTVM (Ch 9) Columbus
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WBKB (Ch 7) Chicago
WCIU (Ch 26) Chicago
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WMAQ-TV (Ch 5) Chicago
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WICD (Ch 24) Danville
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WRGB (Ch 6) Schenectady
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WNNY-TV (Ch 7) Watertown

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WCCB-TV (Ch 36) Charlotte
WSOC-TV (Ch 9) Charlotte
*WTVI (Ch 42) Charlotte
WTVD (Ch 11) Durham
WFMY-TV (Ch 2) Greensboro
WNCT (Ch 9) Greenville
WGHP-TV (Ch 8) High Point
WNBE-TV (Ch 12) New Bern
WRAL-TV (Ch 5) Raleigh
WITN-TV (Ch 7) Washington
WECT (Ch 6) Wilmington
WWAY-TV (Ch 3) Wilmington
WSJS-TV (Ch 12) Winston-Salem

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KXMB-TV (Ch 12) Bismarck
KDIX-TV (Ch 2) Dickinson
*KFME (Ch 13) Fargo
KTHI-TV (Ch 11) Fargo
WDAY-TV (Ch 6) Fargo
KCND-TV (Ch 12) Pembina
KXJB-TV (Ch 4) Valley City

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*WOUB-TV (Ch 20) Athens
*WBGU-TV (Ch 70) Bowling Green
*WCET (Ch 48) Cincinnati
WCPO-TV (Ch 9) Cincinnati
WKRC-TV (Ch 12) Cincinnati
WLW-T (Ch 5) Cincinnati
WEWS (Ch 5) Cleveland
WJW-TV (Ch 8) Cleveland

WKYC-TV (Ch 3) Cleveland
WBNS-TV (Ch 10) Columbus
WLW-C (Ch 4) Columbus
*WOSU-TV (Ch 34) Columbus
WTVN-TV (Ch 6) Columbus
WHIO-TV (Ch 7) Dayton
WLW-D (Ch 2) Dayton
WIMA-TV (Ch 35) Lima
*WGSF (Ch 28) Newark
*WMUB-TV (Ch 14) Oxford
WSTV-TV (Ch 9) Steubenville
*WGTE-TV (Ch 30) Toledo
WSPD-TV (Ch 13) Toledo
WTOL-TV (Ch 11) Toledo
WFMJ-TV (Ch 21 Youngstown
WKBN-TV (Ch 27) Youngstown
WYTV (Ch 33) Youngstown
WHIZ-TV (Ch 18) Zanesville

OKLAHOMA

KTEN (Ch 10) Ada
KXII (Ch 12) Ardmore
KSWB-TV (Ch 8) Elk City
KSWO-TV (Ch 7) Lawton
*KETA (Ch 13) Oklahoma City
KOCO-TV (Ch 5) Oklahoma City
*KOKH-TV (Ch 25) Oklahoma City
KWTV (Ch 9) Oklahoma City
WKY-TV (Ch 4) Oklahoma
*KOED-TV (Ch 11) Tulsa City
KOTV (Ch 6) Tulsa
KTUL-TV (Ch 8) Tulsa
KVOO-TV (Ch 2) Tulsa

OREGON

*KOAC-TV (Ch 7) Corvallis
KEZI-TV (Ch 9) Eugene
KVAL-TV (Ch 13) Eugene
KOTI-TV (Ch 2) Klamath Falls
KTVM-TV (Ch 5) Medford
KMED-TV (Ch 10) Medford
KATU (Ch 2) Portland
KGW-TV (Ch 8) Portland
*KOAP-TV (Ch 10) Portland
KOIN-TV (Ch 6) Portland
KPTV (Ch 12) Portland

PENNSYLVANIA

WFBG-TV (Ch 10) Altoona
WICU-TV (Ch 12) Erie
WSEE-TV (Ch 35) Erie
WHP-TV (Ch 21) Harrisburg
WTPA (Ch 27) Harrisburg
WARD-TV (Ch 56) Johnstown
WJAC-TV (Ch 6) Johnstown
WGAL-TV (Ch 8) Lancaster
WLYH-TV (Ch 15) Lebanon
KYW-TV (Ch 3) Philadelphia
WCAU-TV (Ch 10) Philadelph.
WFIL-TV (ch 6) Philadelphia
WKBS-TV (Ch 48) Philadelphia
WPHL-TV (Ch 17) Philadelphia
*WHYY-TV (Ch 12) Philadelphia
WIBF-TV (Ch 29) Philadelphia
*WUHY-TV (Ch 35) Philadelphia
KDKA-TV (Ch 2) Pittsburgh
WIIC (Ch 11) Pittsburgh
*WQED (Ch 13) Pittsburgh
*WQEX (Ch 16) Pittsburgh
WTAE (Ch 4) Pittsburgh
WDAU-TV (Ch 22) Scranton
WNEP-TV (Ch 16) Scranton
WBRE-TV (Ch 28) Wilkes-Barre
WSBA-TV (Ch 43) York

RHODE ISLAND

WJAR-TV (Ch 10) Providence
WPRO-TV (Ch 12) Providence

SOUTH CAROLINA

WAIM-TV (Ch 40) Anderson
WCIV (Ch 4) Charleston
WCSC-TV (Ch 5) Charleston
*WITV (Ch 6) Charleston
WUSN-TV (Ch 2) Charleston
WIS-TV (Ch 10) Columbia
WNOK-TV (Ch 19) Columbia
WOLO-TV (Ch 25) Columbia
WBTW (Ch 13) Florence
WFBC-TV (Ch 4) Greenville
*WNTV (Ch 29) Greenville
WSPA-TV (Ch 7) Spartanburg

SOUTH DAKOTA

KXAB-TV (Ch 9) Aberdeen
KORN-TV (Ch 5) Mitchell
KOTA-TV (Ch 3) Rapid City
KRSD-TV (Ch 7) Rapid City
KELO-TV (Channel 11) Sioux Falls
KSOO-TV (Ch 13) Sioux Falls
*KUSD-TV (Ch 2) Vermillion

TENNESSEE

WDEF-TV (Ch 12) Chattanooga
WRCB-TV (Ch 3) Chattanooga
WTVC (Ch 9) Chattanooga
WDXI-TV (Ch 7) Jackson
WJHL-TV (Ch 11) Johnson City
WATE-TV (Ch 6) Knoxville
WBIR-TV (Ch 10) Knoxville
WTVK (Ch 26) Knoxville
WHBQ-TV (Ch 13) Memphis
*WKNO-TV (Ch 10) Memphis
WMCT (Ch 5) Memphis
WREC-TV (Ch 3) Memphis
*WDCN-TV (Ch 2) Nashville
WLAC-TV (Ch 5) Nashville
WSIX-TV (Ch 8) Nashville
WSM-TV (Ch 4) Nashville

TEXAS

KRBC-TV (Ch 9) Abilene
KVLF-TV (Ch 12) Alpine
KFDA-TV (Ch 10) Amarillo
KFDW-TV (Ch 12) Amarillo
KGNC-TV (Ch 4) Amarillo
KVII-TV (Ch 7) Amarillo
*KLRN-TV (Ch 9) Austin
KTBC-TV (Ch 7) Austin
KBMT-TV (Ch 12) Beaumont
KFDM-TV (Ch 6) Beaumont
KIII (Ch 3) Corpus Christi
KRIS-TV (Ch 6) Corpus Christi
KZTV (Ch 10) Corpus Christi
*KERA-TV (Ch 13) Dallas
WFAA-TV (Ch 8) Dallas
KRLD-TV (Ch 4) Dallas
KELP-TV (Ch 13) El Paso
KROD-TV (Ch 4) El Paso
KTSM-TV (Ch 9) El Paso
KTVT (Ch 11) Fort Worth
WBAP-TV (Ch 5) Fort Worth
KGBT-TV (Ch 4) Harlingen
KHOU-TV (Ch 11) Houston
KPRC-TV (Ch 2) Houston
KTRK-TV (Ch 13) Houston
*KUHT (Ch 8) Houston
KGNS-TV (Ch 8) Laredo
KCBD-TV (Ch 11) Lubbock
KLBK (Ch 13) Lubbock
*KTXT-TV (ch 5) Lubbock
KTRE-TV (Ch 9) Lufkin
KMID-TV (Ch 2) Midland
KVKM-TV (Ch 9) Monahans
KOSA-TV (Ch 7) Odessa
KPAC-TV (Ch 4) Port Arthur
*KRET-TV (Ch 23) Richardson
KCTV (Ch 8) San Angelo
KENS-TV (Ch 5) San Antonio
KONO-TV (Ch 12) San Antonio
KWEX-TV (Ch 41) San Antonio
WOAI-TV (Ch 4) San Antonio
KPAR-TV (Ch 12) Sweetwater
KCEN-TV (Ch 6) Temple
KLTV (Ch 7) Tyler
KWTX-TV (Ch 10) Waco
KRGV-TV (Ch 5) Weslaco
KAUZ-TV (Ch 6) Wichita Falls
KFDX-TV (Ch 3) Wichita Falls

UTAH

*KUSU-TV (Ch 12) Logan
*KOET (Ch 9) Ogden
*KWCS-TV (Ch 18) Ogden
KCPX-TV (Ch 4) Salt Lake City
KSL-TV (Ch 5) Salt Lake City
*KUED (Ch 7) Salt Lake City
KUTV (Ch 2) Salt Lake City

VERMONT

WCAX-TV (Ch 3) Burlington

VIRGINIA

WCYB-TV (Ch 5) Bristol
WSVA-TV (Ch 3) Harrisonburg
WLVA-TV (Ch 13) Lynchburg
WTAR-TV (Ch 3) Norfolk
WVEC-TV (Ch 13) Norfolk
*WHRO-TV (Ch 15) Norfolk
WXEX-TV (Ch 8) Petersburg
WAVY-TV (Ch 10) Portsmouth
WRVA-TV (Ch 12) Richmond
WTVR (Ch 6) Richmond
*WCVE (Ch 23) Richmond
WDBJ-TV (Ch 7) Roanoke
WSLS-TV (Ch 10) Roanoke

WASHINGTON

KVOS-TV (Ch 12) Bellingham
*KWSC-TV (Ch 10) Pullman
*KCTS-TV (Ch 9) Seattle
KING-TV (Ch 5) Seattle
KIRO-TV (Ch 7) Seattle
KOMO-TV (Ch 4) Seattle
KHQ-TV (Ch 6) Spokane
KREM-TV (Ch 2) Spokane
KXLY-TV (Ch 4) Spokane
*KPEC-TV (Ch 56) Tacoma
KTNT-TV (Ch 11) Tacoma
*KTPS (Ch 62) Tacoma
KTVW-TV (Ch 13) Tacoma
KIMA-TV (Ch 29) Yakima
KNDO-TV (Ch 23) Yakima
*KYVE-TV (Ch 47) Yakima

WEST VIRGINIA

WHIS-TV (Ch 6) Bluefield
WCHS-TV (Ch 8) Charleston
WBOY-TV (Ch 12) Clarksburg
WHTN-TV (Ch 13) Huntington
WSAZ-TV (Ch 3) Huntington
WOAY-TV (Ch 4) Oak Hill
WTAP-TV (Ch 15) Parkersburg
WJPB-TV (Ch 5) Weston
WTRF-TV (Ch 7) Wheeling

WISCONSIN

WEAU-TV (Ch 13) Eau Claire
WBAY-TV (Ch 2) Green Bay
WFRV (Ch 5) Green Bay
WLUK-TV (Ch 11) Green Bay
WKBT (Ch 8) La Crosse
*WHA-TV (Ch 21) Madison
WISC-TV (Ch 3) Madison
WKOW-TV (Ch 27) Madison
WMTV (Ch 15) Madison
WISN-TV (Ch 12) Milwaukee
WITI-TV (Ch 6) Milwaukee
*WMVS (Ch 10) Milwaukee
*WMVT (Ch 36) Milwaukee
WTMJ-TV (Ch 4) Milwaukee
WUHF-TV (Ch 18) Milwaukee
WAOW-TV (Ch 9) Wausau
WSAU-TV (Ch 7) Wausau

WYOMING

KTWO-TV (Ch 2) Casper
KFBC-TV (Ch 5) Cheyenne
KWRB-TV (Ch 10) Riverton
* = Educational station

AMERICAN BROADCASTING COMPANIES, INC.

Addr: 1330 Avenue of the Americas, New York, New York 10019. **L.P:** Pres: Leonard H. Goldenson. Exec. Vice Pres: Simon B. Siegel. Vice Pres. Press Information: Michael J. Foster. Vice Pres. & Asst. to Exec. Vice Pres: Alfred Schneider. **L.P:** for ABC Television Network: Pres: Thomas W. Moore. Vice Pres. Programming: Edgar V. Scherick. Vice Pres. charge of broadcast operations and engineering: Julius Barnathan. **L.P.** for ABC International Television, Inc: Pres: Donald Coyle.

Owned and operated stations: WABC-TV, New York; WBKB, Chicago; WXYZ-TV, Detroit; KABC-TV, Los Angeles; KGO-TV, San Francisco.

COLUMBIA BROADCASTING SYSTEM, INC.

Addr: 51 West 52nd Street, New York, New York 10019. **L.P:** Chairman of Board: William S. Paley. Pres: Frank Stanton. **L.P.** for CBS Television Network: Pres: John A. Schneider. Vice Pres. Sales: Thomas H. Dawson. Vice Pres. Information Services: John P. Cowden. Vice Pres. Programs: Michael Dann. **L.P.** for CBS Television Stations Division: Pres: Merle Jones. Exec. Vice Pres, International Operations: Frank J. Shakespeare. **L.P.** for CBS Films, Inc: Admin. Vice Pres: Sam Cook Digges. Vice Pres. International Sales: Ralph M. Baruch.

Owned and operated stations: WCBS-TV, New York; WBBM-TV, Chicago; KNXT, Los Angeles; WCAU-TV, Philadelphia; KMOX-TV, St. Louis.

NATIONAL BROADCASTING COMPANY

Addr: 30 Rockefeller Plaza, New York, New York 10020. **L.P:** Chairman of Board and Pres: Robert E. Kintner. Sr. Exec. Vice Pres: David C. Adams. Vice Pres. Corporate Information: Robert Kasmire. **L.P:** NBC Television Network: Pres: Walter D. Scott. Vice Pres. Program: Mort Werner. **L.P.** for NBC Enterprises Division: Pres: George A. Graham, Jr. Dir: Joseph M. Klein.

Owned and operated stations: WNBC-TV, New York; WRC-TV, Washington; WMAQ-TV, Chicago; WKYC-TV, Cleveland; KNBC-TV, Los Angeles.

THE ARMED FORCES RADIO & TELEVISION SERVICE

A: Army, AF: Air Force, N: Navy; RCA: Royal Canadian Army.

AREAS		ch	A Watts			ch	A Watts
Alaska				Shemya	AF	3	1
Adak	N	8	100	Stephenville	AF	8	300
Ft. Greely	A	8	180	Caribbean			
Campion	AF	8	130	F. Clayton[2]	A	8	500
Kodiak	N	8	200	Guantanamo[3]	N	8	108
King Salmon	AF	8	200	F. Davis	A	10	200
Northeast Cape	AF	11	90	Roosevelt Rds[1]	N	8	19

AREAS		chA	Watts	Europe		chA	Watts
Aguadilla[1]	AF	21	300	Spangdahlem[12]	AF	22	10kW
No. Atlantic				Iraklion[13]	AF	8	300
Goose Bay[4]	AF	8	346	Ramstein[12]	AF	26	1kW
Sondrestrom[7]	AF	8	168	**Near East, Far East**			
Thule AFB[7]	AF	8	100	Adana[19]	AF	3	
Keflavik[9]	N	8	250	Teheran[14]	A	8	650
Terceira[5]	AF	8	180	Peshawar[20]	AF	11	
Pacific				Okinawa[16]	AF	8	42.5kW
Midway[9]	N	4	150	AFKN[17]: see Korea			
N. African				Clark[18]	AF	8	150
Tripoli[10]	AF	8	2.1kW	Misawa[15]	AF	73	600
Asmara[11]	A	8	100	Chitose[15]	AF	73	1kW

[1] Puerto Rico. [2] Panama Canal Zone. [3] Cuba. [4] Canada. [5] Azores. [6] Bermuda. [7] Greenland. [8] Iceland. [9] Marshall Isl. [10] Libya. [11] Eritrea. [12] Germany. [13] Greece. [14] Iran. [15] Japan. [16] Ryukyu Isl. [17] Korea. [18] Philippines. [19] Turkey. [20] Pakistan.

CENTRAL AMERICA

BARBADOS

CARIBBEAN BROADCASTING CORPORATION (Gov, Comm.)
Fi: By adv. and licence fee – Ad: 8 min's per h.
Addr: P.O. Box 785, Barbados. **Te:** 2163.. **Cable:** Cabroco – **L.P:** Gen. Mgr: D. Vance. Dir. Tec: G. S. Shaw – **Station** (System: Can. Gen. Electric): CBC-TV chA3 60/30kW H – **D.Prgr:** 21.30–02.30 PYE, Ltd, GB: Studio equip – EMI Electronics, GB: Tape recorders.

COSTA RICA

TELEVISORA DE COSTA RICA (Comm.)
Addr: Apt. 3876, San José. **Te:** 2537. **Cable:** Television – **L.P:** Dir: R. Picado. Dir. Tec: R. Carrillo Lara – **Station:** TI-TVCR chA7 3.6/1.8kW – **Rel st's:** Villa Mills chA11 3.5/1.75kW, Palmira chA12 5.4/2.7kW, Turrialba Volcano chA7 1.5/0.75kW, Golfito chA5 1.2/0.6kW – **D.Prgr:** 20.00–04.00.

R. TELEVISION TIC-TAC (Comm.)
Addr: Apt. 4666, San José. **Te:** 3283. **Cable:** Tictac – **L.P:** Gen. Mgr: A. Vargas V – **Station:** San José chA9 3/1.5kW H – **D.Prgr:** 20.00–04.00.

TELENAC (Comm.): **Addr:** Alajuela City – **L.P:** Gen. Mgr: C. M. Reyes Z – **Station:** chA2 5/2.5kW – To operate from Jan. 66.

CUBA

TELEVISION STATIONS: Pol: H. **Call:** CM--.

Call	ch	kW	Location	Call	ch	kW	Location
KU-TV	2	14/7	Santiago**	LD-TV	8	5/2.5	Holguin*
H-TV	3	31/15.5	Sta Clara*	RA-TV	8		Sta Clara*
KJ-TV	3	27.5/13.25	Holguin*	GQ-TV	9	3/1.5	Matanzas**
BF-TV	4	125/62.5	Havana*				
J-TV	4	18/9	Camaguey*	GH-TV	11	5/2.5	Matanzas*
HQ-TV	5	25.6	Sta Clara**				
LB-TV	5	5/2.5	Santiago*	–	12	61/30.5	P. del Rio**
JL-TV	6	56.2/28	Camaguey*				
Q-TV	6	125/62.5	Havana**	LF-TV	13	5/2.5	V. de las Tunas*
–	7	–	S. Cristobal**	G-TV	13	5/2.5	Matanzas*
FD-TV	7	18.5/9.25	C. de Avila**				

*Television Revolucion: **Addr:** Mazon y San Miguel, Habana – **CMQ-TV: **Addr:** Radiocentro, Habana – **D.Prgr:** W 16.30–04.00 – Both netw's operated by the Gov.

DOMINICAN REPUBLIC

RADIO SANTO DOMINGO-TV (Comm.)
Addr: Calle Dr. Tejada Florentine 8, Santo Domingo. **Te:** 2-3195. **Cable:** Dominican – **L.P:** Dir. Gen: C. Gimbernard – **Station:** HISD-TV chA4 5/2.5kW – *Satellites:* La Cumbre chA9 0.5/0.25kW, Santo Cerro chA2 5/0.25kW – **D.Prgr:** 21.00–03.30.

RAHINTEL TELEVISION (Comm.)
Addr: Centro de los Heroes de Constanza, Sto. Domingo. **Te:** 3-1031. **Cable:** Rahin – **Station:** chA7 (Sto. Domingo) 1/0.5kW H. **L.P:** Dir. Gen: A. Cannizare – **D.Prgr:** 22.25–02.30.

EL SALVADOR

TELECENTRO S. A. – **Addr:** Apt. 1375, San Salvador. **Te:** 6227. **Cable:** Telecentre – **L.P:** Gen. Mgr: A. Vilar. Dir. Tec: R. H. Rahn – **Stations:** YSU-TV chA4 66/38.5kW H, YSEB-TV chA6 1.5/0.5kW, YSDR-TV chA8 6/3kW – **D.Prgr:** chA4 17.00–06.00; chA6 23.00–05.00.

GUADELOUPE

OFFICE DE RADIODIFF.-TELEVISION FRANCAISE
Addr: Basse Terre – **L.P:** see radio.
Station (System K 625 lines): Pointe à Pitre 207.25/213.75Mc 0.05kW – **D.Prgr:** 22.00–01.00.

GUATEMALA

TELEVISION NACIONAL (Gov.) – **Addr:** Ca. 18 de Septiembre 6-72, Z-1, Guatemala City – **L.P:** see radio.
Station: TGW-TV chA5 10/5kW H – **D.Prgr:** 00.00–04.00; chA9 5/2.5kW H (Cult prgr's).

RADIO-TELEVISION GUATEMALA S. A. (Comm.) – **Addr:** Apt. 1367, Guatemala. **Te:** 24-1-24. **Cable:** Teletenango – **L.P:** Gen. Mgr. & Film Buyer: W. G. Campbell. Dir. Tec: F. Licht – **Station:** TG-BOL-TV chA3 100/25kW H – **D.Prgr:** 17.00–06.00.

TELEVICENTRO (Comm.) – **Addr:** 7a Av. 1-19, Z-9, Guatemala – **L.P:** Dir: C. A. Anleu B – **Station:** TGTV chA7 5/2.5kW H – **D.Prgr:** 01.00–05.00.

HAITI

TELE-HAITI (Comm.) – **Addr:** P.O. Box 1126, Port-au-Prince **Te:** 2278. **Cable:** Telehaiti – **L.P:** Dir. Gen: A. S. Apaid. Dir. Tec: E. C. Gentil – **Station:** 4VMR-TV chA5 2.5/0.6kW H – **D.Prgr:** W 17.00–02.30, Sun 17.00–23.00.

HONDURAS (Rep.)

COMPANIA TELEVISORA HONDUREÑA S. A. (Comm.)
Addr: Apt. Postal 734, Tegucigalpa. **Te:** 2-5514. **Cable:** Television – **L.P:** Dir. Gen: J. R. Ferrari. Dir. Tec: M. Villeda T – **Station:** HRTG-TV chA5 4/2kW V – **Rel st's:** HRSU-TV chA9 20kW (El Socorro), HRYA-TV chA13 7kW (San Pedro Sula) – **D.Prgr:** 18.00–20.00, 23.00–05.00.

JAMAICA

JAMAICA BROADCASTING CORPORATION (Comm.)
Addr: 5 South Odeon Ave, Kingston – **L.P:** see radio – **Stations:** (Systems: Can. Gen. Electric, Selenia, Italy): Kingston chA11 0.28/0.14kW H – Relay st's (Pol: H): Coopers Hill chA7 20.5/10.25kW, Port Antonio chA8 0.16/0.8kW, Montego Bay chA11 1/0.5kW, Oracabessa chA12 1/0.5kW, Spur-Tree chA13 23/21.5kW, Yallahs chA9 1/0.5kW – **D.Prgr:** W 22.30–03.00, Sun 21.00–03.00.
Pye T.V.T, C.G.E. delivered studio equip – EMI Electronics, GB: Complete TV-station

LEEWARD ISLANDS

LEEWARD ISLAND TELEVISION SERVICES LTD,
(Comm, Gov, participation) – **Addr:** Belmont Hill, P.O. Box 159, St. John's, Antigua – **L.P:** Dir. Gen: W. Staskow. St. Mgr: D. Seath. Dir. Tec: S. James.
Stations: ZAL chA10 22kW H – Relay st: chA7 0.1kW H – **D.Prgr:** 22.30–02.00. Tests: 21.30–22.30.

MARTINIQUE

OFFICE DE RADIODIFF.-TELEVISION FRANCAISE
Addr: Fort de France – **L.P:** see radio – **Station** (System K 625 lines): 207.25/213.75Mc 0.05kW – **D.Prgr:** 22.00–01.00.

MEXICO

*=affiliated to Telesistema Mexicano – All st's comm. exc. XEIP.
INSTITUTO POLITECNICO NACIONAL (Cult): **Addr:** Casco de Sante Tomas, México DC – **Station:** XEIP-TV chA11 5kW.

TELEVISION DE LA FRONTERA S.A: **Addr:** Vicente Guerrero 704, Ci Juarez, Chih – **Station:** XEJ-TV chA5 3.65/1.82kW H.

***TELEVISORA MEXICALI S. A:** **Addr:** P.O. Box 1356, Mexicali, B.C. **Te:** 2-28-55. **L.P:** Dir. Gen: R. Sánchez de Aparichio. Dir. Tec: E. Bezies – **Station:** XHBC-TV chA3 15/7.5kW V – **D.Prgr:** 22.00–07.00.

TELESISTEMA MEXICANO S.A: Addr: Edif. Televicentro, Av. Chapultepec 18, México, DF. Te: 18-50-20 – L.P: Pres: E. Azcárranga Jr. St. Mgr: 1st Netw: E. Azcárraga Jr. Mgr: 2nd Netw: R. O'Farril. Mgr: 3rd Netw: Ing. G. González C. Dir. Tec: M. A. Pereyra. Stations: 1) XEW-TV chA2 100kW H (Mexico City). Relay st's: XEQ-TV chA9 325kW H (Altzomoni) – XEZ-TV chA3 10kW (Cerro del Zamorano) – XEWO-TV chA2 5/2.5kW (Guadalajara) – 2) XH-TV chA4 100kW H (México City). Rel. st's: XEX-TV chA7 5kW (Paso de Cortés) chA6 10kW H (Cerro del Zamorsno) – 3) XHGC-TV chA5 5kW H (México City) – 4) KWEX-TV chA41 (San Antonio, Texas, USA), KMEX-TV chA32 (Los Angeles, Calif) chA65 (New York, NY) D.Prgr: 1) Mon–Fri 14.00–20.30, 22.15–06.45, Sat 14.00–20.00, 22.30–05.45, Sun 16.30–06.45 – 2) D 20.30–05.45, Mon–Fri 17.00–17.30, Sat/Sun 15.30–20.00 – 3) D 21.30–05.45, W 17.00–17.30, Sun 17.15–17.45. Test tr. (colour): D 00.00–01.00.

TELEVISION DEL NORTE S.A: Addr: P.O. Box 1833, Monterrey, NL. Te: 2-62-00. L.P: Dir. Gen: V. Flaquer. Dir. Tec: F. Leal. Film Buyer: A. Roque. Station: XET-TV chA6 108/54kW H – D.Prgr: 18.00–06.00.

RADIO TELEVISION S.A: Addr: Apt. Postal 121, Tijuana, B.C. L.P: Dir. Gen: E. Azgárraga V. Dir. Tec: Ing. A. Frias Ramirez – Station: XE-TV chA6 40/20kW H – D.Prgr: 15.00–07.00 – F.Pl: Color-TV in 1965.

***TELEVICENTRO DE MONTERREY**: Addr: Espinosa 780 Pte, Monterrey, N.L. Te: 3-62-75. L.P: Gen. Mgr: M. Quintanills G. Film Buyer: G. Adalid G. Dir. Tec: J. Garcia. Stations: XEFB-TV chA3 5/2.5kW H. D.Prgr: 15.30–06.00. XHX-TV chA10 5/2.5kW. D.Prgr's: 18.00–06.00. F.Pl: chA10 (Linares, NL).

***TELEVISION DE NUEVO LAREDO**: Addr: Aldama 2611, Nuevo Laredo, Tams. Te: 2182. L.P: Gen. Mgr: R. Tijerina C. Station: XEFE-TV chA2 0.5kW – chA11 1.5/0.75kW H. D.Prgr: 00.00–06.00 –

TELEVISION TAPATIA S.A. Addr: P.O. Box 5, Guadalajara, Jal. Te: 37525. L.P: Gen. Mgr: M. Bauche. Dir. Tec: Ing. C. Sánchez. Station: XEHL-TV chA6 6/3kW H. D.Prgr: 20.00–06.00.

***TELEVISORA DE LA LAGUNA**: Addr: Torreon, Coah. Station: XELN-TV chA4 4/2kW H.

TELEVISION DE CIUDAD JUAREZ: Addr: P.O. Box 271. Ci. Juarez, Chih. L.P: Gen. Mgr: S. R. Molinar F. Station: XEPM-TV chA2 0.5/0.25kW H.

***TELEVISORA DE CHIHUAHUA S.A**: Addr: Chihuahua, Chih. Station: XERA-TV chA11 0.4/0.2 H.

***TELEVISORA DE HERMOSILLO S.A**: Addr: P.O. Box 603, Hermosillo, Son. Te: 3-66-66. L.P: St. Mgr: A. Casanova. L. Dir. Tec: E. Alvarez. Station: XEWH-TV chA6 1.6/0.8kW H. D.Prgr: 22.00–06.00.

***TELEVISORA DE OCCIDENTE S.A**: Addr: Av. Alemania 285, Guadalajara, Jal. Te: 4-41-40. L.P: Dir. Gen: M. Rincon E. Gen. Mgr: M. de Coso Y. Dir. Tec: R. Venegas. Stations: XEWO-TV chA2 15/7.5kW H, XHG-TV chA4 15/7.5kW H. D.Prgr: XEWO-TV: As Telesistema Mexicano 1st Netw. XHG-TV: 18.00–07.00.

***TELEVISORA DE CALIMEX S.A**: Addr: Tijuana B.C. Station: XEWT-TV chA12 66/33kW H.

***TELEVISORA DE NOGALES S.A**: Addr: Av. Alvaro Obregón 138, Nogales, Son, Te: 562. L.P: Gen. Mgr: Dr. F. Arriola. G. Dir. Tec: Ing. C. P. Morreale. Station: XHFA-TV chA2 8/4kW. D.Prgr: 00.00–07.00.

TELEVISORA DE YUCATAN: Addr: Ca. 60, No. 385, Merida, Yucatan. L.P: Dir. Gen: A. Garcia Lavin. Film Buyer: F. Leon M. Dir. Tec: H. Padran M. Station: XHY-TV chA3 2/1kW H D.Prgr: 22.00–06.00.

TELEVISION DE COLIMA S.A: Addr: Anillo Circunvalación 1080 Nte, Colima, Col – Station: XHCC-TV chA5 1/0.5kW.

***TELEVISION DE VERACRUZ**: Addr: Apt. Postal 751, Veracruz. L.P: Dir. Gen: C. Ferraez Matos. Dir. Tec: C. Trejo Castillo. Film Buyer: J. Horacio S – Station: XHFM-TV chA2 18/9kW – D.Prgr: 23.00–06.00.

TELEVISION DE ENSENADA: Addr: Av. Punta Banda y Eugenia, Fraccionamiento Chapultepec, Ensenada, B.C – Station: XAS-TV chA23 0.4/0.2kW.

UNIVERSIDAD DE SONORA: Addr: Hermosillo. Station: XHUS-TV chA1 1/0.14kW H.

TELEVISORA DE YAQUI, Ci Obregon, Son. Station: XHI-TV chA2 25/12.5kW H.

JESUS D. GONZALEZ: Addr: Paricutin 316, Sur, Col Roma, Monterrey N. L. Station: XHDG-TV chA12.

TELEVISION MEXICANA INDEPENDIENTE: Addr: Av. Insurgentes Sur 1870, Mexico DF. Station: chA13.

ROBERTO NAJERA – Station: chA16, Mexico, DF.
Ampex Videotape, USA: XERA-TV (TS) (Chihuahua), XEWO-TV (TS) (Guadalajara), XEWH-TV (TS) (Hermosillo), XEJ-TV (Juarez), XEFE-TV (TS) (Laredo), XEM-TV (TS) (Mexicali), Corp. Mexicana XEW-TV (TS), XHGG-TV, Telesistema (Mexico City), XHNL-TV (Monterrey), XHGO-TV (TS) (Tampico), XEWT-TV (TS), XETV (Tijuana), XHLN-TV (TS) (Torreon). – Pye T.V.T, GB: Tr, ant, studio equip, OBV to XEIP-TV. EMI Electronics, GB: Studio equip. to various organisations.

NETHERLANDS ANTILLES

TELECURACAO (Comm.)
Addr: P.O. Box 415, Curaçao. Te: 13140. Cable: Telecuracao.
L.P: Pres: G. A. Bartell. Gen. Mgr. & Film Buyer: E. C. Hernandez. Asst. Gen. Mgr: J. Lashley. Chief Eng: P. J. Hoogesteger.
Station: chE8 2kW H – D.Prgr: 21.30–04.00.

TELEARUBA (Comm.)
Addr: P.O. Box 392 1A, Aruba. Te: 7302. Cable: Telearuba. L.P: See Telecuraçao – Station: Ch E12 3kW – D.Prgr: 22.00–04.00.
Projected St's: 2 low powered repeaters at Bonaire.

NICARAGUA

TELEVISION DE NICARAGUA S. A. (Comm.)
Addr: Apt. 1505, Managua. Te: 5404. Cable: Tevenic – L.P: Dir. Gen & Film Buyer: R. O. Cano. Dir. Tec: F. Cruz R – Stations: YNSA-TV chA6 6/3kW V – chA8 0.3/0.15kW V – D.Prgr: 21.30–05.00.

TELEVICENTRO DE NICARAGUA (Comm.)
Addr: Las Nubes, El Crucero, Managua – Station: YNTC chA2 5/1kW

TELEVISORA CONTINENTAL (Comm.)
Addr: Del Cine Ruiz 2 1/2 c. abajo, Managua – L.P: St. Mgr: Dr. M. Valle Q – Station: YNTM-TV chA3 0.1/0.05kW.

TELEVISION COMERCIAL (Comm.)
Addr: Las Nubes, El Crucero, Managua – Station: YNLG-TV chA12 0.5/0.25kW.

PANAMA

CIRCUITO RPC-TELEVISION (Comm.) – Addr: Apt. 1795, Panama – Stations: HOHM-TV chA4 45/22.5kW – HOH4-TV Boquete chA6 6.3/3.1kW H – HOF34-TV Sona chA7 7.95/3.97kW – HOHN-TV chA12 25/12.5kW (rel. chA4) – D.Prgr: 16.30–18.15, 21.00–04.30.
Ampex Videotape, USA.

TELEVISORA NACIONAL S. A. (Priv, Comm.) – Addr: Apt. 8371, Panama. Te: 3-1724. Cable: Tenasa – Stations: HOU34-TV chA2 90/45kW – HP5C-TV chA6 0.5/0.25kW – D.Prgr: 17.00–04.30.

TELEBARU S. A. (Comm.)
Addr: Apt. 160, David – Station: chA10 3/1.5kW H.

PUERTO RICO

STATIONS: All comm. exc. 2) and 5).

Call	chA	kW	Call	chA	kW
1) WKAQ-TV	2	100/50	6) WRIK-TV	7	63.1/31.6
2) WIPM-TV	3	35.5/17.8	7) WSUR-TV	9	2.73/0.41
3) WAPA-TV	4	56.2/33.9	8) WKBM-TV	11	27/13.5
4) WORA-TV	5	100/50	9) WOLE-TV	12	17.88/8.91
5) WIPR-TV	6	100/50			

1) **El Mundo Inc**, Box 5096, San Juan. L.P: Gen. Mgr: J. Oviedo. Comm. Mgr: R. Ruiz – 2) **Dept. of Education**, Box 449, Mayaguez. L.P: Gen. Mgr: J. Delano.
3) **WAPA TV Broadc. Corpo**, Box 2050, San Juan. L.P: Gen. Mgr: H. Modestti – 4) **Quality Telecasting Corpo**, Box 43, Mayaguez. L.P: Mgr: R. M. Dupont – 5) **Dept. of Education**, Box 909, Hato Rey.
6) **Ponce TV Corpo**, Darlington Bldg, Ponce. L.P: Gen. Mgr: W. Cortada. Comm. Mgr: W. Morales – 7) **American Colonial Broadc. Corpo**, Box 471, Ponce. L.P: Pres. & Gen. Mgr: R. Perez P.
8) **American Colonial Broadc. Corpo**, 610, Condado St, San Juan. L.P: see 7) – 9) **Western Broadc. Corpo of Puerto Rico**, Box 2050, San Juan. L.P: Gen. Mgr: N. Banks. Comm. Mgr: A. Zayas.
Projected: WRSJ-TV chA36 50/20kW.
Ampex Videotape, USA: WAPA, WIPR, WKAQ, WKBM.

TRINIDAD & TOBAGO

TRINIDAD AND TOBAGO TELEVISION CO. LTD. (Comm.)
A joint private enterprise between majority joint-share-holders, Rediff. Ltd. and Scottish Television Ltd, with participation by C.B.S. and Gov.
Addr: Television House, Maraval Rd, Port-of-Spain. Te: 24141. Cable: Television Trinidad – L.P: Gen. Mgr: R. F. Goodsman. Chief Eng: C. D. Parris. Sales Mgr: N. E. Welch – Station: (System: Can. Gen. Electric): chA13 15/6kW H. Relay st: chA2 15/7.5kW H. D.Prgr: W 22.00–02.00(Sat 03.00), Sun 21.00–03.00.

VIRGIN ISLANDS (American)

ISLAND TELERADIO SERVICE, INC. (Comm.)
Addr: P.O. Box 1947, St. Thomas – **L.P:** see radio.
Station (System: Gates): chA10 2.5/1.25kW – **D.Prgr:** Mon–Fri 20.00–03.15, Sat 09.00–03.00, Sun 19.15–05.00.

SOUTH AMERICA

ARGENTINA

St's marked *=comm.

PRIMERA TELEVISORA ARGENTINA (Official, Comm.)
Addr: Viamonte 153, Buenos Aires. **Te:** 31-7091. **Cable:** TV canal siete. **L.P:** Dir. Gen: F. Petrone. Mgr: Dr. C. A. Colombo. Dir. Tec: M. Pulver. Film Buyer: S. Servant – **Station:** LS82 chA7 42/21kW H +3 satellites – **D.Prgr:** Mon–Fri 16.00–04.30, Sat 15.00–06.00, Sun 13.00–04.30.

***CA-DE-TE:** **Addr:** Av. F. Alcorta 3428 y Castex 3345, Buenos Aires. **Te:** 72-3073. **L.P:** Dir: A. Romay. **Station:** LS83-TV chA9 40kW. **D.Prgr:** 14.30–05.00.

***TELEONCE:** **Addr:** Dicon S.A, Pavón 2444, Buenos Aires. **Te:** 91-9231. **Cable:** Teleonce. **L.P:** Dir. Gen: Dr. P. Simoncini. Dir. Tec: C. A. Fernández. Film Buyer: D. Castel. **Station:** LS84 chA11 120/60kW. **D.Prgr:** 17.30–05.00.

RIO DE LA PLATA: **Addr:** Cochabamba 1153, Buenos Aires. **Te:** 273601. **Cable:** Riteve. **L.P:** Dir. Gen: A. R. Costantini. **Station:** LS85-TV chA13 115/57.5kW H – **D.Prgr:** 12.30–05.00.

***DIFUSORA MARPLATENSE:** **Addr:** Av. Luro 2907, Mar del Plata. **Te:** 23046. **L.P:** Dir. Gen: L. Heker. Mgr. & Film Buyer: O. Viña. Dir. Tec: R. Casanova. **Station:** LU86-TV chA8 5/1kW H. **D.Prgr:** 20.00–03.00.

***DIFUSORA MENDOZA:** **Addr:** Garibaldi 7, Mendoza. **Te:** 19468. **L.P:** Dir. Gen: S. Castro. Mgr. & Film Buyer: H. Bortolamedi. **Station** (System: RCA): LV89-TV chA7 15/7.5kW H+1 satellite. **D.Prgr:** 15.30–04.30.

***TELECOR S.A:** **Addr:** Fader 111, Cerro de las Rosas, Córdoba. **Te:** 87685. **L.P:** Mgr: J. A. Smith. Dir. Tec: M. Barbieri. **Stations:** LV81 chA12 2/0.5kW H. **D.Prgr:** 15.00–03.00.

UNIVERSIDAD NACIONAL DE CORDOBA (Gov.): **Addr:** Avda. Gral Paz 120, 7° piso. **Te:** 31075. **L.P:** Dir. Gen: F. Garzón M. Mgr: A. Rustan – **Station:** LV80 chA10 0.5/0.25kW H. **D.Prgr:** 22.00–04.30.

TELEVISORA MENDOZA: **Addr:** San Rafael, Mendoza.
Station: LV84 chA6.

TELEVISORA SAN JUAN: **Addr:** Rivadavia 22 Este, San Juan.
Station: LV82 chA8.

UNIVERSIDAD DE TUCUMAN: **Addr:** San Miguel de Tucuman.
Station: LV83 chA10.
St's under construction: LT80 Concordia chA4 (Rio Uruguay Co. de TV, Luis Saenz Peña 1240, B. Aires) – LW80 chA7 (R. Visión Jujuy S.A. Necochea 237, San Salvador de Jujuy) – Further st's to operate in Bahia Blanca, Mar del Plata, Comodoro Rivadavia, Neuquén Corrientes, Resistencia, Santiago del Estero, Salta, Santa Fé, La Plata.

BRAZIL

ASSOCIACÃO BRASILEIRA DE EMISSORAS DE RADIO & TELEVISÃO (ABERT): **Addr:** Av. Rio Branco 4, salas 901–903, Rio de Janeiro. **L.P:** see radio.

DIARIOS E EMISSORAS ASSOCIADOS: **Addr:** Rua Francisco Serrador 2, 2°, Rio de Janeiro. **L.P:** see radio.

All st's marked * belong to ABERT.
All st's comm. exc. where indicated.

TELEVISÃO NACIONAL DE BRASILIA (Gov.): **Addr:** C.P. 95, Brasilia. **Station:** chA3 2/1kW H.

***TELEVISÃO BRASILIA:** **Addr:** Av. W3, Setor de Rádio e Televisão, Brasilia, D.F. **Te:** 2-9666. **Telex:** 157. **L.P:** Dir. Gen: Dr. J. Valladares. St. Mgr: L. C. Barbosa. Dir. Tec: R. Perez. **Station:** chA6 10/5kW H. **D.Prgr:** D 20.00–03.00 (W also 15.00–16.30).

***TELEVISÃO ALVORADA:** **Addr:** Brasilia. **Station:** chA8 10/5kW H. **D.Prgr:** 15.00(Sat/Sun 14.00)–03.00.

***TELEVISÃO CONTINENTAL:** **Addr:** Rua das Laranjeiras 291, Rio de Janeiro. **Te:** 42-6419. **L.P:** Dir. Gen: C. Berardo. St. Mgr: C. B. Carneiro da Cunha. Dir. Tec: J. M. Franciscus Zayen. **Station:** chA9 10/5kW H. **D.Prgr:** 21.00–04.00.

***TELEVISÃO-RIO:** **Addr:** Av. Atlantica 4264, Rio de Janeiro. **Te:** 27.0047. **Cable:** Teverio. **L.P:** Mgr: J. Baptista do Amaral Jr. Dir. Tec: J. Toropovsky. Dir. Prgr: J. O. Castro N. Film Buyer: W. C. Bueno. **Station:** chA13 36/18kW H. **D.Prgr:** 15.00(Sat/Sun 14.00)–03.00. **Relay St's:** TV-Juiz de Fora, MG, chA5 10/5kW H, TV-Lafaiete chA6 10/5kW H, TV-Guaratingueta chA12 10/5kW H, TV-Friburgo chA3 10/5kW H.

***TELEVISÃO-TUPI:** **Addr:** Av. João Luiz Alves 13/14-Urca, Rio de Janeiro, GB. **L.P:** Dir. Gen: N. G. Bastos. Dir. Tec: O. Pagliari. Dir. Prgr. & Film Buyer: A. Nogueira. **Station:** chA6 25/2.5kW H (relay st's at Itatiaia, Itapeva, Campos). **D.Prgr:** 19.00–04.30.

***TELEVISÃO GLOBO:** **Addr:** Rua Von Martius 22, Jardim Botanico, Rio de Janeiro. **Te:** 46-8110. **L.P:** see radio. **Station:** chA4 120/60kW H. **D.Prgr:** 14.00–03.00.

***TELEVISÃO EXCELSIOR:** **Addr:** Rua Nestor Pestana 196, São Paulo. **Te:** 365329; Av. Venezuela 43, Rio de Janeiro. **Te:** 238185; TV-Gaucha: Av. Borges de Medeiros. Porto Alegre. **L.P:** Dir. Gen: W. Simonsen Neto. Mgr: A. Saad. Dir. Tec: A. Maluf. Film Buyer: E. Leite. **Stations:** São Paulo chA9 25/12.5kW H, Rio de Janeiro chA2 10/5kW H, Porto Alegre (TV Gaucha) chA12 40kW H. **D.Prgr:** chA9/A2 W 15.00–05.00, Sun 12.00–05.00; chA12 19.00(Sat 15.00, Sun 13.00)–03.00.

***TELEVISÃO PAULISTA:** **Addr:** Rua das Palmeiras 322, Sao Paulo. **Cable:** Televisão. **L.P:** Dir. Gen: F. de Assis Rangel P. Dir. Adm: H. de Salvo. Dir. Tec: P. C. da Silva. **Station:** chA5 5/2.5kW H. (relay st's at Campinas, Santos, Vale do Paraiba, Itajubá, Bauru). **D.Prgr:** 18.00–03.00.

***TELEVISÃO TUPI DIFUSORA:** **Addr:** Biarro Sumpare, São Paulo, SP. **L.P:** Dir: E. Monteiro. **Station:** chA4 6/3kW H. **D.Prgr:** 12.00–03.00.

***TELEVISÃO CULTURA:** **Addr:** Rua Sete de Abril 230, São Paulo. **Station:** chA2 15.5/7.75kW H. **D.Prgr:** 19.00(Sun 17.00)–03.00.

***TELEVISÃO RECORD:** **Addr:** São Paulo, SP. **L.P:** Dir. Gen: E. A. Amaral Carvalho. **Station:** chA7 5/2.5kW H. **D.Prgr:** 18.00–03.00.

***TELEVISÃO RIBEIRÃO PRETO:** **Addr:** Ribeirão Preto, SP. **Station:** chA13 1/0.5kW H. **D.Prgr:** rel. TV-Tupi, São Paulo, exc. 21.00–23.00.

***TELEVISAO-BAURU:** **Addr:** Bauru, SP. **Station:** chA2 2/0.5 kw H – Operates in conjunction with TV-Paulista, São Paulo.

TELEVISÃO SANTOS: **Addr:** Santos, SP. **Station:** chA8 10/5 kW H.

***TELEVISÃO PIRATINI:** **Addr:** Rua 7 de Setembro 1123, Porto Alegre, RGS. **L.P:** Dir. Gen: N. D. de Oliveira. Comm. Mgr: I. J. Tartarotti. Dir. Tec: Dr. I. Olimpiew. Dir. Prgr: A. Sales. Film Buyer: P. Leal. **Stations:** chA5 25/12.5kW H (relay st's at Sta. Cruz do Sul, B. Gonçalves, Nova Prata, Casca-Marau, Passo Fundo, Pelotas, Osorio, Sta. Maria, São Lourenco, Bom Jesus, Torres, Cachoeira do Sul, Antonio Prado (all in RGS); also Ararangua, Sidorópolis, Criciuma & Tubarão (in SC). **D.Prgr:** 18.00–03.00.

***TELEVISÃO GAUCHA:** **Addr:** C.P. 1164, Porto Alegre, RGS. **L.P:** see radio. **Station:** chA12 80/40kW H.+1 relay st. **D.Prgr:** 18.00–03.00.

***TELEVISÃO ALTEROSA** (Comm.): **Addr:** Belo Horizonte. **Station:** chA2 2.5/1.25kW H. **D.Prgr:** W 19.55–02.35 (Sat 15.00–01.55). Sun 14.00–02.15.

***TV-BELO HORIZONTE**, Belo Horizonte, MG. **Station:** chA12 10/5kW H. **D.Prgr:** 15.00(Sat/Sun 14.00)–03.00.

***TELEVISÃO ITACOLOMI:** **Addr:** C.P. 1753, Belo Horizonte, MG. **Te:** 2-0944. **Telex:** 134. **L.P:** St. Mgr: Dr. C. T. da Costa. Dir. Tec: V. P. Netto. Dir. Prgr: A. Rezende. Film Buyer: P. Leal. **Station:** chA4 31/15.5kW H. **D.Prgr:** 18.00–03.00.

***TELEVISÃO LAFAIETE:** **Addr:** Conselheiro Lafaiete, MG. **Station:** chA6 10/5kW H.

TV INDUSTRIAL: **Addr:** Juiz de Fora, MG. **Station:** chA10.

***TELEVISÃO CLUBE DE PERNAMBUCO:** **Addr:** Av. Cruz Cabuga 394, Recife, PE. **Te:** 4-1522. **Cable:** "Diarbuco". **L.P:** Dir. Gen: H. Motta. St. Mgr: F. Trigueiro. Dir. Tec: Dr. J. Olimpiew. Dir. Prgr: E. Visco. Film Buyer: P. Leal. **Station:** chA6 10/5kW H. **D.Prgr:** W 19.15(Sat 19.00)–02.30. Sun 17.00–02.00.

***TELEVISÃO JORNAL DO COMERCIO:** Rua Marquez de Recife, Recife, PE. **Station:** chA2 18/9kW H.

TELEVISÃO PARANA: **Addr:** Rua J. Loureiro 119, Curitiba. **L.P:** Dir: C. Guilherme Addor. Dir. Tec: J. Louro. **Station:** chA6 2/1kW. **D.Prgr:** 20.00–02.30.

***TELEVISÃO PARANAENSE:** **Addr:** Senador Slencar Guimarães 97, Curitiba, PA. **L.P:** Dir. Gen: Dr. N. Chede. Dir. Tec: O. B. Freire. **Station:** chA12 10/5kW H.

***TELEVISÃO CEARA:** **Addr:** C.P. 222, Fortaleza, CE. **Te:** 1-3125. **Cable:** "Prenove". **L.P:** Dir. Gen: Dr. M. E. P. Campos. Dir. Tec: Dr. J. Olimpiew. Dir. Prgr: R. Siqueira. Film Buyer: P. Leal.

Station: chA2 0.5/0.25kW H. D.Prgr: W 20.00–01.46 (Sat 19.10–01.48). Sun 19.25–01.31.

***TELEVISÃO ITAPOAN**: Addr: Rua Gomes 57, Salvador, BA. Te: PB/5-1143. Cable: Gremio. L.P: Dir. Gen: Dr. O. Tavares. St. Mgr: Dr. P. Nacife. Dir. Tec: Dr. J. Olimpiew. Dir. Prgr: R. Mendoça. Film Buyer: P. Leal. Station: chA5 2/1kW H. D.Prgr: 17.00–03.00 (approx). Sat 19.00 03.45. Sun 18.45–02.20.

***TELEVISÃO MARAJOARA** (Comm): Addr: Travessa Campos Sales 206/10, Belem, PA. Te: 3422. Cable: Provan. L.P: Dir. Gen: M. Trindade. Dir. Tec: Dr. I. Olimpiew. Dir. Prgr: R. Jares. Film Buyer: P. Leal. Station: chA2 1/0.5kW H. D.Prgr: W 18.50–03.00 (approx). Sat 19.10–03.35. Sun 19.00–03.00.

***TELEVISÃO R. CLUBE GOIANIA** (Comm.): Addr: Av. Goias 17/19, Goiania, GO. Te: 4042. Cable: Folhago. Telex: 285. L.P: Dir. Gen: Dr. F. B. Sobrinho. Dir. Tec: Dr. V. P. Netto. Dir. Prgr: B. de Castro. Film Buyer: P. Leal. Station: chA4 5/2.5kW H. D.Prgr: W 20.40–02.00 (Sat 20.25–01.25). Sun 19.10–02.00.

***TELEVISÃO VITORIA** (Comm.): Addr: Av. Jeronima 331, 11° and, Vitória, ES. Te: 3406. Cable: Ravito. L.P: Dir. Gen: N. Bastos. Dir. Tec: H. Pagliari. Dir. Prgr: D. B. Ribeiro. Film Buyer: P. Leal. Station: chA4 5/2.5kW H. D.Prgr: W 19.50–02.05. Sun 18.20–01.25.

***TELEVISÃO BORBOREMA**: Addr: Rua Cardoso Vieira 36, Campina Grande PB. Te: 196. L.P: Dir. Gen: M. Motta. Dir. Tec: Dr. I. Olimpiew. Dir. Prgr: A. Sales. Film Buyer: P. Leal. Station: chA9 5/2.5kW H. D.Prgr: 22.00–01.15 (approx).

***TV ANHANGUERA**: Addr: Goiania, Goiás. Station: chA2.

TV COROADOS: Addr: Londrina, Parana. Station: chA3.

TV ERECHIM: Addr: Erechim, RGS. Station: chA4.

TV TRIANGULO: Belo Horizonte, chA8.

Projected stations:

TV Mayrink Vega, Rio de Janeiro, chA2 – TV Farroupilha, Galeria Rosario 22, Porto Alegre, chA5 – TV Bandeirantes, São Paulo, chA13 – TV Gazeta, São Paulo, chA11 – TV Brasil Central, Goiania, chA13 – TV Campos, Campos, chA8 – TV Guaiaba, Porto Alegre, chA2 – TV Volta Redonda, Volta Redonda, chA8 – TV Feira de Santana, chA3 – TV Livramento, Livramento RGS, chA13 – TV Difusora do Maranhao, São Luis, chA4.

Ampex Videotape: TV Alvorada (Brasilia), TV Gaucha (Porto Alegre), ch2 (Recife), Rio, TV Cont, TV Rio (Rio de Janeiro), ch7, ch9, ch13, TV Excelsior, TV Paulista (São Paulo).

The Marconi Company, Ltd, G.B: TV tr's: Jornal de Comercio (Recife) 1 × 18, 1 × 9kW, R. Bandeirantes S.A. (São Paulo) 2 × 5, 1 × 5kW – Ant: Jornal de Comercio – Studio equip: Jornal de Comercio, R. Bandeirantes, S.A. – OBV: Jornal de Comercio.

Pye T.V.T, G.B: Tr, ant, studio equip. to TV Gaucha, Porto Alegre.

CHILE

UNIVERSIDAD DE CHILE (Educ.) – Addr: Alameda 1058, Santiago. L.P: Dir: H. Soto. Dir. Tec: H. Barra. Station: chA9 3/1.5kW V. D.Prgr: 17.30–19.00, 22.00–03.45.

UNIVERSIDAD CATOLICA (Non-comm.) – Addr: Casilla 114D, Santiago. Te: 397709 – L.P: Dir. Gen: E. Tironi Arce. Dir. Tec: P. Carabal – Station: chA13 3/1.5kW H. Repeater st. (chA8) in Valparaiso. D.Prgr: 18.30–19.30, 22.30–04.00.

COLOMBIA

INSTITUTO NACIONAL DE RADIO Y TELEVISION (Gov, Netw.) – Fi: By Gov. and adv (40% of prgr's non-comm). – Addr: Apt. Nacional 1824, Bogotá. Te: 438244. L.P: Dir. Gen: C. Simmonds P. Dir. Tec: J. E. Nassar.

Stations: Bogota chA7 10/2kW, chA10 1/0.25kW – Manizales chA11 1/0.25kW – Jurisdicciones chA6 10/2kW – El Carmen chA9 1/0.25kW – Monteria chA7 1/0.25kW – S. Maria chA2 10/2kW – Medellin chA8 0.25kW – Tunja chA10 0.4kW – Madroño chA9 0.4kW – Belencito to chA7 0.005kW.

D.Prgr's: 13.15–16.00 (Educ), 21.00–04.30 (Comm). Prgr's are originated at Bogotá, all other st's are repeaters.

Under construction: Bogotá (2nd Prgr) chA9 1/0.25kW – Medellin chA3 10/2kW – Cale chA11 10/2kW – Munchique (Popayan) chA7 1/0.25kW – Galeras (Pasto) chA10 1/0.25kW – Neiva chA11 1/0.25 kW – Quibdó chA13 0.25kW – Cucuta chA7 0.25kW.

All National TV Network planned, supplied, and installed by Siemens & Halske A.G, Germany.

ECUADOR

LA VENTANA DE LOS ANDES (Priv, non-comm, cult.) Addr: Casilla 691, Quito. L.P: Dir: R. Benoit – Station: HCJB-TV chA4 8/4kW H. D.Prgr: 23.30–03.10.

PRIMERA TELEVISION ECUATORIANA S.A. (Comm.) Addr: Casilla 5902, Guayaquil. Te: 10753. Cable: Telecuator; Casilla 70, Quito. Te: 17307. Cable: Teleseis – L.P: Dir. Gen: A. Lopez M. Mgr: M. Luque B. Dir. Tec: R. Stroessner – Stations: Guayaquil chA4 2/1kW H, Quito chA6 2/1kW H – D.Prgr: 22.30–04.30. Test tr's: 22.00–22.25.

PARAGUAY

TELEVISION CERRO CORA (Comm.) Addr: Asunción – Stations: chA9 0.5/0.25kW II.

PERU

Cultural

MINISTRY OF EDUCATION (Gov.): Addr: Ministerio de Educación Publica, Dirección de Cultura, Lima. Te: 75737. L.P: Dir. Gen: R. Garrido M. Dir. Tec: A. E. Mousalve. Station: OAD-TV chA7 0.1/0.05kW H.

Commercial

TELEVISORA AMERICA: Addr: Montero Rosas, Lima. Te: 42919. Stations: 1) chA4 30/15kW, 2) Piura chA2 2/1kW, 3) Chiclayo chA4 2/1kW, 4) Trujillo chA6 2/1kW. Relay st's: 1) Huacho ch6, Ica ch6, Ancon ch6, 2) Talara ch6.

TELEVISORA PANAMERICANA: Addr: Av. Arequipa 1110, Lima. Te: 34240. L.P: Mgr: G. Delgado P. Dir. Tec: M. Flores. Stations: 1) chA13 4/2kW H, 2) Trujillo ch7 0.5kW, 3) Piura chA7 0.5kW, 4) Chiclayo chA9.

TELEVISORA VICTORIA: Addr: Av. Tacna 543, Lima. Te: 3-5945. L.P: Mgr: J. E. Cavero. Stations: 1) chA2 4/2kW H, 2) Huancayo chA3 0.5/0.25kW H, 3) chA6 (Iquitos), 4) Cuzco chA6.

TELEVISORA EXELSIOR: Addr: Av. Manco Capac, Lima. Station: chA11.

TELEVISORA EL SOL: Addr: Av. Uruguay 355, Lima. Te: 35490. Station: chA9 10/5kW H. Relay st's: Huacho chA7, Ica chA11. D.Prgr: 23.30(Sun 23.00)–05.00.

TELEVISORA PERUANA: Addr: Cas. 514, Arequipa. Te: 3090. Stations: 1) chA2 0.5/0.25kW, Cuzco chA4. D.Prgr: 18.00–04.30.

TELEVISORA CONTINENTAL: Addr: M. de Orberoga 338, Arequipa. Station: chA6 8/4kW H. D.Prgr: 20.00–05.00.

Ampex Videotape, USA: R. America TV, Lima.

URUGUAY

SAETA (Sociedad Anomina de Emisoras de Television y Anexos) (Comm.) – Addr: Tacuarembo 1234, Montevideo. Te: 402128. Cable: Saeta. L.P: Pres: R. Fontaina. Vice Pres: J. E. De Feo. Gen. Mgr: R. Fontaina Jr. Dir. Tec: A. Galimberti. Sales Mgr: M. Fontaina. Film Buyer: E. Antonio. Dir. Adm: A. Villegas. Station: chA10 2.5/1.25kW H. D.Prgr: 17.00–03.00.

SODRE (Servicio Oficial de Difusión Radio Electrica): Addr: Bulevard Artigas, Colorado, Montevideo. L.P: See radio. Station: chA5 5/2.5kW. D.Prgr: 21.30–03.00.

TELEVISORA LARRANAGA S.A. (Comm.): Addr: Enriqueta Compte y Rique 1276, Montevideo. Te: 25856. L.P: Gen. Mgr. & Film Buyer: H. Scheck. Comm. Mgr: R. Rodriguez. Dir. Tec: J. Facca. Station: CXA12-TV chA12 100/50kW H. D.Prgr: 12.00–03.00.

MONTE CARLO TV (Comm.): Addr: Av. 18 de Julio 1855, Montevideo. Cable: Montecarlotv. Te: 402146. L.P: Dir. Gen: H. Romay Salvo. Station: chA4 32/16kW H. D.Prgr: 11.00–04.00.

VENEZUELA

Def: 625 – Ch: A – Pol: H.

TELEVISORA NACIONAL (Gov.) – Addr: Apt. 3979, Caracas. Te: 545436. L.P: Dir. TV: Dr. A. Pazani P. Dir. Tec: M. A. Burgos. Station: YVKA-TV chA5 37.5/18.6kW. D.Prgr: 21.30–04.30.

ONDAS DEL LAGO TV (Comm.) – Addr: Calle 74, Edif. Teleradiopolis. Maracaibo. Cable: Lagonda. L.P: Pres: N. Vale Q. Mgr: R. Vale C. Dir. Tec: J. Salcedo. Station: chA13 12/6kW H. D.Prgr: 18.00–04.00.

R. CARACAS TV (Comm.) – Addr: Apt. 2057, Caracas. Te: 418971. L.P: Dir. Gen: A. Espina. Dir. Tec: J. Marcano. Stations: YVKS-TV: Barquisimeto chA3 20/10kW, Carabobo chA7 12.8/6.4kW, Caracas chA2 62.6/31.3kW, Curimagua chA10 330/165kW, La Guaira chA7 10/5kW, Maracaibo chA2 600/300kW, P. La Cruz chA7 1/0.5kW. D.Prgr: 12.30–05.00.

R. VALENCIA TV (Comm.) – Addr: Valencia. Station: chA3 4/2kW. D.Prgr: 22.30–04.30.

TELEINVERSIONES: Addr: Apt. 9349, Caracas. Stations: Caracas chA13 50/25kW. Pichacho chA13 50/25kW, Valencia chA6 3/1.5kW.

VENEVISION (Comm.): Addr: Apt. 6674, Caracas. Te: 722741. Cable: Ventel. L.P: Dir. Gen: V. Humpierrez. Mgr: E. Cuscó. Dir. Tec: E. Hamilton. Stations: Caracas chA4 75/37.5kW H – Barquisimeto chA6 84/42kW – Carabobo chA9 84/42kW – Maracaibo chA4 50/25kW H – Curimagua chA11 100/50kW – P. La Cruz chA6 250/25 kW – Vargas chA9 12/6kW. D.Prgr: 19.00–04.00. Test tr's: 18.00–19.00.

COLOR TELEVISION, Caracas – Station: YVRS-TV chA8.

PROGRAM DISTRIBUTORS

ABC Films, Inc., 1501 Broadway, New York 10036, New York
Branches: ABC Films International, Suite 314, 20 Carlton Street, Toronto, Ontario, Canada
ABC Films International, 37 Longfield House, 18/20 Uxbridge Road, Ealing, London W.5., England
ABC Films International, Amcocast, Tokyo, Japan
ABC Films International, Glarnischstr. 22, Zurich-Stafa, Switzerland
ABC Films International, Via Antonazzo Romano 7/Int. 26, Rome, Italy
ABC Films International, Century Publicidade Itda., Rua Francisco, Serrador, 90, Grupa 1001, Rio de Janeiro, Brazil
ABC Films International, TV Interamericano S.P., Porfiro Diaz 195, Mexico 12, D.F., Mexico
ABC Films International, Screen Presentations (Pvt.) Ltd., P.O. Box 1884, Salisbury, Rhodesia
ABC Films, Inc., 190 N. Canon Drive, Beverly Hills, California
ABC Television Network, 1330 Avenue of the Americas, New York, New York 10019
Branches: 190 N. State Street, Chicago 1, Illinois
277 Golden Gate Avenue, San Francisco, California
4151 Prospect Avenue, Hollywood 27, California
20777 W. Ten Mile Road, Northwestern Highway, Detroit, Michigan
ABC Television Ltd., Vogue House, Hanover Square, London W.1, England
A & F Film Corp., 1434 St. Catherine Street, West, Montreal, Quebec, Canada
Air Programs International, 412 George Street, Sydney, Australia
M & A Alexander Productions, Inc., 6040 Sunset Blvd., Hollywood 28, California
Allied Artists TV Corp., 165 West 46th Street, New York, New York
Branch: 4376 Sunset Blvd., Hollywood, California
American International TV Inc., 165 West 46th Street, New York, New York
Branch: 7165 Sunset Blvd., Los Angeles, California
Amerivision Inc., 6500 Wellington Street, Montreal, Quebec, Canada
Anglia Television Ltd., Brook House, Park Lane, London W.1, England
Apollo Productions, 130 Carlton Street, Toronto, Canada
Associated Television Ltd., ATV House, 17 Great Cumberland Place, London W1, England
Branches: Independent Television Corp., 555 Madison Avenue, New York, N.Y.,
ITC of Canada Ltd., 100 Univ. Ave, Toronto, Canada
100 University Avenue, Toronto, Canada
Atlantic Television Inc., 130 West 46th Street, New York, New York
Atlas Telefilm Ltd., 160 Bloor Street East, Toronto, Canada
George Bagnall & Associates Inc., 8827 Olympic Blvd., Beverly Hills, California

Banner Films, Inc., 527 Madison Avenue, New York 22, New York
Ben Barry & Associates, 20 East Huron Street, Chicago 1, Illinois
BBC Enterprises, Inc., Television Centre, London W12, England
Branch: 630 Fifth Avenue, New York, New York 10020
Big Fights, Inc., 9 East 40th Street, New York 16, New York
Border Television Ltd., 14 Curzon Street, London W.1, England
Buena Vista Distributing Co., 477 Madison Ave., New York, New York 10022
CBS Films Inc., 51 W. 52nd St., New York, New York 10019
Branches: CBS Films Inc., c/o Page One Limited, 18 Greenville Street, Toronto, Canada
CBS (Europe) S.A., Chamerstrasse 18, Zug, Switzerland
CBS (Europe) S.A., Succursale Italiana, 45 Via Ludovisi, Rome, Italy
CBS Limited, Villiers House, Strand, London W.C.2, England
CBS Japan Inc., 4th Floor, Mitsuwa Bldg., 5, Nishi 6-chome, Ginza Chuo-ku, Tokyo, Japan
CBS Limited, Wilfrid Fleisher, 18 Sturegatan, Stockholm, Sweden
CBS Films Pty. Ltd., Suite 2, Colman House, Berry & Walker Streets, North Sydney, Australia
Taiyang Trading Co., 60, 1 Ka, Myung-Dong Chung-Ku, Seoul, Korea
African Films & Features (Pvt.) Ltd., 806 Central House, 3 Central Avenue, Salisbury, Rhodesia
Morad Yousuf Bahbehani, P.O. Box 146, Kuwait (Arabia)
CBS (Europe) S.A., Georgenstrasse 27, Munich 13 Germany
Agence Francaise De Television, 12 Rue Gaillon, Paris, France

CBS Films, Inc., 7800 Beverly Blvd, Los Angeles 36, California
CBS Television Network, 51 W. 52nd St., New York, New York 10019
Branches: 630 North McClurg Court, Chicago 11, Illinois
932 Fischer Bldg., Detroit 2, Michigan
7800 Beverly Blvd., Los Angeles 36, California
Spence Caldwell, Ltd., 447 Jarvis Street, Toronto, Canada
Caldwell Television Sales, 447 Jarvis Street, Toronto, Canada
Cavalcade Television Program, 959 North Fairfax Avenue, Hollywood 46, California
Channel Television, 195 Knightsbridge, London S.W.7., England
Cheryl TV Corp., 3084 Motor Avenue, Los Angeles 64, California
Church of England Television Society, 511 Kent Street, Sydney, Australia
Cinema-Vue Corp., 245 West 55th Street, New York, New York 10019
Branch: 206-13 Parthenia Street, Cononga Park, Los Angeles, California
Colorama Features Inc., 733 Third Avenue, New York, New York 10017
Commonwealth Film & TV Inc., 723 Seventh Avenue, New York 19, New York
Tom Corradine & Associates, 5746 Sunset Blvd., Hollywood, California

Desilu Sales Inc., 780 N. Gower, Hollywood 38, California
Branches: 140 E. 56th St. New York, N.Y.
Dola Films, Ltd., 160 Bloor Street East, Toronto, Canada
Dynamic Films, Inc., 405 Park Avenue, New York 22, New York

Embassy Pictures Corp., 1301 Sixth Avenue, New York, New York
Branch: 8831 Sunset Blvd., Suite 301, Los Angeles, 7 California
Emi-Vise Pty. Ltd., 301 Castlereagh Street, Sydney, Australia
Eurafilm, 56 Blvd d'Italie Monte-Carlo, Monaco
380 Lexington Avenue, New York, N.Y. 10017, USA
Explorers Pictures Corp., 16 West 46th Street, New York, New York

Film Art Television Pictures, 21 Dundas Square, Toronto, Canada
Flamingo Telefilm Sales Inc., 529 Fifth Avenue, New York, New York 10017
Fleetwood Films, Inc., 10 Fiske Place, Mt. Vernon, New York
Four Star Distribution Corp., 600 Fifth Avenue, New York, New York 10020
Franklin Television Production, 1454 Peerless Place, Los Angeles 35, California
Fremantle International Inc., 366 Madison Avenue, New York, New York 10017
Branches: 30 Dean Street, London W.1., England
17 Dundonald Street, Toronto, Ontario, Canada
Via Monte Giordano 36, Rome, Italy
1396 St. Catherine Street, Montreal, Quebec, Canada
167 Kent Street, Caltex House, Suite 1101, Sydney, Australia
Callao 1370, Buenos Aires, Argentina
Mitchell Gertz Agency, 338 North Rodeo Drive, Beverly Hills, California

Grampian Television Ltd., Nuffield House, 41 Piccadilly, London W.1, England
Granada TV Network Ltd., 36 Golden Square, London W.1, England
Branch: 509 Madison Avenue, New York, New York 10022

Harriscope Inc., 290 S. La Cienega Blvd., Beverly Hills, California
Hoffberg Productions Inc., 362 West 44th Street, New York, New York 10036
Hollywood Television Service, 4024 Radford Avenue, North Hollywood, California
Branches: 660 Madison Avenue, New York, New York
37 Baseler Strasse, Frankfurt, Germany
277 Victoria Street, Toronto, Ontario, Canada
Sovereign Film Dist. Ltd., 3811 Edmonton Trail, Calgary, Alberta, Canada
1200 St. Alexander Street, Montreal, Quebec, Canada
133 Princess Street, Saint John, N.B., Canada
2178 W. 12th Street, Vancouver, B.C., Canada
281 Colony Street, Winnipeg, Manitoba, Canada

Ideal Pictures Inc., 417 North State Street, Chicago, Illinois
Branch: 6514 Selma Avenue, Hollywood, California
Intertel, International Television Development Corp., 527 Madison Avenue, New York, New York
Jayark Films Corp., 733 Third Avenue, New York, New York 10017
King Features Syndicate TV Division, 235 East 45th Street, New York 17, New York
Branch: 10850 Riverside Drive, North Hollywood, California
Lakeside Television Co. Inc., 1465 Broadway, New York, New York 10036

Continued page 278

DENMARK'S BIGGEST DAILY

Berlingske Tidende

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34, Pilestraede, Copenhagen, Denmark

Program Distributors *Continued from page 276*

Laurel Films Ltd., 165 Bloor Street East, Toronto, Canada

MCA TV Ltd., 598 Madison Avenue, New York, New York 10022
MCA TV, Ltd. Film Syndication Div., 598 Madison Avenue, New York, New York 10022
Branches: Revue Studios, 3900 Lankershim Blvd, Universal City, California
139 Piccadilly, London W.1, England
49 Bis Avenue Hoche, Paris 8me, France
151 Bloor St., West, Toronto 5, Ontario, Canada
11 Via Tevere, Rome, Italy
Haendelstrasse 7, 8 Munich 27, Germany
Hamburgo 70, Mexico 6, D.F., Mexico
Hotel New Japan, Suite 881, 29 Nagaiacho 2 chome Chiyo-da-ku, Tokyo, Japan
Universal House, Poplar & Pelican Streets, Sydney. Australia
Malibu Productions Pty. Ltd., 313 Bridge Road, Richmond, Victoria, Australia
Medallion Pictures Corp., 200 West 57th Street, New York, New York 10019
Medallion TV Enterprises Inc., 6000 Sunset Blvd., Hollywood 28, California
Branch: 444 Madison Avenue, New York, New York 10022
MGM-TV, 1540 Broadway, New York, New York
Branches: MGM Studios, Culver City, California
340 Victoria Street, Toronto, Canada
Modern Sound Pictures Inc., 1410 Howard Street, Omaha 2, Nebraska

NBC International, 30 Rockefeller Plaza, New York 20, New York
Branches: NBC International (Great Britain) Ltd., 36 Berkeley Square London W.1, England
NBC International (Canada) Ltd., 500 University Avenue, Toronto 2, Ontario, Canada
NBC International, De Mexico, S.A., Niza 6, – 505, Postal 21313, Mexico City, Mexico
NBC International Australia Pty. Ltd., 251 Elisabeth Street, Sydney, NSW, Australia

NBC Television Network, RCA Bldg., Radio City, New York 20, New York
Branch: Sunset Blvd. & Vine Street, Hollywood ,California
National Film Board, 3255 Cote de Liesse Road, Montreal, Canada
National Film Board of Canada, 680 Fifth Avenue, Suite 819, New York 19, New York
NTA, 8530 Wilshire Blvd., Beverly Hills, California
Branches: 444 Madison Avenue, New York, New York
175 Bloor Street East, Toronto 5, Ontario, Canada
Eagle House, 109 Jermyn Street, London S.W.1, England
Weteringschans 245, Amsterdam, Holland
Montevideo 451, Buenos Aires, Argentina
900 Mahachai Road, Bangkok, Thailand
37 Rue Kanafani & Ariss, Beirut, Lebanon
Tsukiji Kaikan, 4–4 Tsukiji Chuo-ku, Tokyo, Japan
N. 4 Penang Road, Singapore

Official Films, Inc., 724 Fifth Avenue, New York, New York
Prime TV Films, Inc., 120 West 57th Street, New York 19, New York
Princeton Film Center Inc., P.O. Box 431, Mt. Lucas Rd., Princeton, New Jersey
Branch: 1456 N. Bronson Avenue, Hollywood, California
RCA Recorded Program Services, 155 East 24th Street, New York 10, New York
Branch: 6363 Sunset Blvd., Hollywood 28, California
Walter Reade-Sterling Inc., 241 East 34th Street, New York, New York
Rediffusion Ltd., Television House, Kingsway, London W.C. 2, England
Stuart Reynolds Productions, 195 S. Beverly Drive, Beverly Hills, California
Riviera Productions, 6610 Selma Avenue, Hollywood 28, California
Peter M. Robeck & Co. Inc., 230 Park Avenue, New York 17, New York
Branch: 6269 Selma, Hollywood 28, California
Walter Schwimmer, Inc., 410 North Michigan, Chicago, Illinois
Branch: 527 Madison Avenue, Room 514, New York, New York
Scottish Television Ltd., Theatre Royal, Glasgow, Scotland
Screen Gems, Inc., 711 Fifth Avenue, New York 22, New York
Branches: 102–108 Peter Street, Toronto, Ontario, Canada
142–150 Wardour Street, London W.1, England
43–104 Plaza de la Republica, Mexico 1, D.F., Mexico
Columbia Pictures of Brazil Inc., Rua do Triunfo 134–150 Andar, Sao Paulo, Brazil
M.L.C. Building, 105–153 Millet Street, N. Sydney, N.S.W., Australia
Screen Gems Trading Corp. of Puerto Rico, P.O. Box 422 Parada 8, Film Center Bldg., San Juan, Puerto Rico
Japanese International Ent Kanesaka Bldg., 15, 2-chome, Shiba Tamura-cho Minato-ku, Tokyo, Japan
Screen Gems Inc., Kaiserstrasse 6, Frankfurt-Am-Main, Germany
Seven Arts Associated Corp., 200 Park Avenue, New York, New York 10017
Branches: 3562 Royal Wood Drive, Sherman Oaks, California
11 Adelaide Street West, Toronto, Ontario, Canada
Seven Arts House, 24 Berkeley Square, London W.1, England
Show Corp. of America, International Bldg., 45 Rockefeller Plaza, New York, New York 10020
Southern Television Ltd., Glen House, Stage Place, London S.W.1, England
Sovereign Films Ltd., 277 Victoria Street, Toronto, Canada
Sportlite Films, 20 North Wacker Drive, Chicago 6, Illinois
Sterling Films Ltd., King Edward Hotel, Toronto, Canada
Storer Programs Inc., 338 S. Western Ave., Los Angeles, Calif. 90005

T.W.W. Ltd., 207 Sloane Street, London S.W.1, England
Teledynamics Corporation, 729 Seventh Avenue, New York 19, New York
Tele Features Inc., 516 Fifth Avenue, New York 36, New York
Telesynd, Division of Wrather Corp., 375 Park Avenue, New York New York
Time-Life Broadcast., Inc., Time & Life Building, New York, New York
Trans-Lux TV Corp., 625 Madison Avenue, New York 22, New York
Branches: 6258 Hollywood Blvd., Hollywood 28, California
Utoquai 29, Zurich 8, Switzerland
TV Marketeers, Inc., 300 East 51st Street, New York 22, New York
T-V Visuals, Inc., 20 North Wacker Drive, Chicago 6, Illinois
Twentieth Century-Fox TV Inc., 444 West 56th Street, New York, New York 10019
Branches: Box 900, Beverly Hills, California
20th Century-Fox TV International, 444 West 56th Street, New York New York 10019
Branches: 110 Bond Street, Toronto 2, Canada
33 Champs Elysees, Paris 8e, France
Box 1790 Moadie Bldg., Monot Street, Beirut, Lebanon
31–30 Soho Square, London W.1, England
Karolinenplatz No. 6, Munich, Germany
Box 373, Mexico 1, D.F., Mexico
Box 600, Cairo, Egypt
Box 531, Tokyo Central, Japan
43–51 Brisbane Street, Sydney, Australia
Tyne Tees Television Ltd., 1 Great Cumberland Place, London W.1, England

Ulster Television Ltd., 1 Hanover Square, London W.1, England
UN Television, United Nations, New York, New York
United Artists Associates Inc., 555 Madison Avenue, New York, New York 10022
Branch: 1041 N. Formosa Avenue, Hollywood 46, California
United Artists Television Inc., 555 Madison Avenue, New York, New York 10022
Branches: 9465 Wilshire, Beverly Hills, California
277 Victoria Street, Toronto 2, Ontario, Canada
United Press International, 220 East 42nd Street, New York, New York 10017
Branches: 6520 Selma Avenue, Los Angeles 28, California
575 University Street, Montreal, Quebec, Canada
8 Bouverie Street, London E.C. 4, England
New Mainichi Bldg., Tokyo, Japan
Avenida Belgrano 271, Buenos Aires, Argentina

Van Coevering Production, 20 North Wacker Drive, Chicago, Illinois

Wales Television Ltd., 1 Great Cumberland Place, London W.1, England
Warner Bros. Television Division, 666 Fifth Avenue, New York, 19 New York
WBC Program Sales Inc., 90 Park Avenue, New York, New York
Westward Television Ltd., 4–7 Woodstock Street, London W.1, England
Winik Films Corporation, 1501 Broadway, New York 36, New York
Wolper Productions, Inc., 555 Madison Ave., New York, New York 10022

Where to obtain the WRTH: see page 303

LONG- AND MEDIUM WAVE STATIONS

EUROPE — NORTH AFRICA — NEAR EAST

For medium waves of the other countries see the individual countries.

Alg. = Algeria; Az. = Azores; Aust. = Austria; Belg. = Belgium; Bulg. = Bulgaria; C. Isl. = Canary Islands; Cyp. = Cyprus; Czecho. = Czechoslovakia; Den. = Denmark; F. = France; Faeroe. = Faeroe Islands; Finl. = Finland; G = Germany; Gr. = Greece; Gt. Br. = Great Britain; Holl. = Holland; Hung. = Hungary; Icel. = Iceland; It. = Italy; Mon. = Monaco; Mor. = Morocco; No. = Norway; Port. = Portugal; Rum. = Rumania; REM = Red de Emisoras del Movimiento; Sp. = Spain; Sw. = Sweden; Switz. = Switzerland.

kc/s	Metres	kW	Stations
151	1987	50	**Moscow I** - USSR
—	1987	50	**Mainflingen** (Deutschl.funk)
155	1935	10	**Tromsø** - Norway
—	1935	150	**Brasov** - Rumania
164	1829	250/500	**Allouis** - France
173	1734	500	**Moscow I** - USSR
—	1734	20	**Chita** - USSR
182	1648	10	**Luleå** - Sweden
—	1648	400/1000	**R. Europa I** - G
—	1648	240	**R. Ankara** - Turkey
185	1622	200/1000	**Deutschlands.** - G
191	1571	600	**Motala** - Sweden
200	1500	100	**Moscow III** - USSR
—	1500	400	**Droitwich** - Gt. Br.
209	1435	150	**Kiev I** - USSR
—	1435	20	**Eidar** - Iceland
—	1435	100	**Reykjavik** - Iceland
215	1400	1250	**Monte Carlo** - Mon.
218	1376	200	**Oslo** - Norway
—	1376	50	**Krasnoyarsk**-USSR
227	1322	500	**Warsaw I** - Poland
233	1287	500	**Luxembourg I**
236	1271	100	**Leningrad I** - USSR
245	1224	150	**Kalundborg I** - Den.
254	1184	200	**Lahti** - Finland
263	1141	150	**Moscow II** - USSR
—	1141	20/150	**R. Wolga** - DDR
272	1102.9	200	**CS I** - Czechosl.
281	1068	100	**Minsk** - USSR
385	779	50	**Kharkov** - USSR
395	759.5	100	**Moscow IV** - USSR
400	750	50	**Minsk** - USSR
433	693	10	**Oulu** - Finland
511	587	0.25	**Sulitjelma** - Norway
520	577	2	**Braunschweig** - (**NDR**) - G
—	577	1	**Joensuu** - Finland
—	577	0.2	**Bayreuth** (**BR**) - G
—	577	0.2	**Kempten** (**BR**) - G
—	577	0.2	**Würzburg** (**BR**) - G
—	577	0.05	**2 low power** - Aust.
—	577	10	**Aldrans II** - Austria
—	577	10	**Lienz II** - Austria
—	577	0.25	**Rørås** - Norway
529	561.1	220	**Schwerin** (**DDR**) - G
—	561.1	150	**Beromünster** - Swit.
539	556.5	135	**R. Kossuth** - Hung.
—	556.5	0.05	**Bayonne II** - F.
—	556.5	0.005	**3 low power** - Italy
548	547.4	100	**Odessa** - USSR
—	547	200	**Königslutter** (**D.funk**) - G
—	547	20	**B. Dürrheim** (**D.funk**) - G
—	547	5	**Asturias** (**RNE**), Sp.
—	547	300	**Oran I** - Algeria
557	539	100	**Helsinki I** - Finland
—	538.6	50	**Cairo III** - Egypt
—	538.6	4	**Bucuresti** - Rum.
—	538.6	50	**M. Ceneri** - Switz.
—	538.6	5	**Greifswald** (**DDR**) - G
—	538.6	1	**Faro** - Portugal
—	538.6	1	**Guarda** - Portugal
—	539	1	**Tonggourt** - Alger.
566	530	0.05	**6 low power** - Aust.
—	530	0.1	**Feistritz** - Austria
—	530	100	**Athlone** - Ireland
—	530	10	**Caltanisetta I** - Italy
—	530	5	**Salento** - Italy
—	530	20/100	**Freies Berlin** - G
—	530	300	**Damascus** - Syria
575	521.7	300	**Mühlacker** (**SDR**), G
575	521.7	100	**Riga I** - USSR
—	521.7	4	**Laghouet** - Algeria
—	521.7	120	**Leipzig** (**DDR**) - G
—	521.7	50/10	**Tel Aviv** - Israel
584	514	1	**Paris III** - France
—	513.7	5	**Thorshavn** - Faroe.
—	513.7	200	**Madrid** (**RNE**) - Sp.
—	513.7	25	**Klagenfurt II** Austria
—	513.7	0.05	**Sfax I** - Tunesia
—	513.7	10	**Salzburg II** - Aust.
—	513.7	150	**Wien II** - Austria
—	513.7	0.05	**Mayerhofen** - Aust.
593	505.9	150	**Sundsvall** - Sweden
—	505.9	100	**Frankfurt** (**HR**) - G
—	505.9	20	**Meissner** (**HR**) - G
—	505.9	200	**Sofia II** - Bulgaria
—	505.9	100	**Oujda I** - Morocco
602	498.4	20	**Karl-Marx-St.** - G
—	498.4	50	**Beni Suef I** - Egypt
—	498.4	5	**Sfax II** - Tunisia
—	498.4	100	**Lyon I** - France
606	495	20	**Nicosia** - Cyprus
611	491	10	**Nürnberg-Gr.wöhr** Germany
—	491	10	**Kaiserslaut.** - G
—	491	140	**Sebaa-Aioun** - Mor.
—	491	500	**Berlin** (**DDR**) - G
—	491	100	**Petrozavodsk** - USSR
—	491	100	**Sarajevo** - Yugosl.
620	483.9	450	**Batra I** - Egypt
—	483.9	150	**Bruxelles I** - Belg.
—	483.9	100	**Tenerife** (**RNE**) - Can. Isl.
628	477	30	**Timisoara II** - Rum.
629	477	100	**Vigra I** - Norway
—	477	600	**Tunis I** - Tunisia
—	477	25	**Aldrans I** - Austria
—	477	25	**Lauterach** - Austria
—	477	1	**Lienz I** - Austria
—	477	20	**Erfurt** (**DDR**) - G
630	476	0.25	**AFRTS** - Iran
638	470.5	100	**BBC** - Cyprus
—	470.5	25	**San Sebastian** (**RNE**) - Sp.
—	470.5	150	**Praha** - Czechoslov.
647	463.6	100	**Simferopol** - USSR
—	463.6	0.05	**8 low power** - Aust.
—	463.6	150	**Daventry** - Gt. Br.
—	463.6	2	**Edinburgh** - Gt. Br.
—	463.6	2	**Glasgow** - Gt. Br.
—	463.6	2	**Newcastle** - Gt. Br.
—	463.6	2	**Redmos** - Gt. Br.
—	463.6	5	**Sevilla** (**RNE**) - Sp.
650	461.5	7.5	**R. Tabriz** - Iran
656	457.3	20	**Bolzano III** - Italy
—	457.3	80	**Firenze I** - Italy
—	457.3	80	**Napoli I** - Italy
—	457.3	35	**Torino I** - Italy
—	457.3	10	**Venezia I** - Italy
—	457.3	20	**Potsdam** (**DDR**), G
—	457.3	150	**Murmansk** - USSR
—	457.3	100	**Tel Aviv** - Israel
665	451.2	15	**Athens III** - Greece
—	451.2	1	**Höfn** - Iceland
—	451.2	100	**Damascus** - Syria
—	451	300	**Bodenseesender** - G
—	451	135	**Lisboa I** - Portugal
—	451	100	**Vilnius I** - USSR
674	445.1	10	**Bodö** - Norway
—	445.1	100	**Tjernovtsy** - USSR
—	445	150	**Marseille I** - France
677	443	20	**Jerusalem** - Jordan
680	441.2	1	**R. Rasht** - Iran
683	439	200	**Beograd** - Yugosl.
—	439	40/100	**Berlin/Hof** (**RIAS**)
—	439	250	**Sevilla** (**RNE**) - Sp.
692	434	1	**Bouira** - Algeria
—	434	20	**Nicosia** - Cyprus
—	434	250	**Deutschlands.** - G
—	434	2	**Cromer** - Gt. Br.
—	434	150	**Moors. Edge** - Gt. Br.
—	434	2	**Whitehaven** - Gt.Br.
701	428	2	**Aurich** (**NDR**) - G
—	428	2	**Lingen** (**NDR**) - G
—	428	5	**Aachen** (**WDR**) - G
—	428	2	**Siegen** (**WDR**) - G
—	428	2	**Herford** (**WDR**) - G
—	428	400	**BBC** - Perim Isl.
—	428	150	**Istanbul** - Turkey
—	428	140	**Sebaa-Aioun II** - Morocco
—	428	20	**Finnmark** - Norway
—	428	100	**B. Bystrica** - Czech.
710	422	150	**Rennes I** - France
—	422	150	**Limoges I** - France
—	422	150	**Donetsk** - USSR
—	422	100	**Asyut II** - Egypt
—	422	150	**Tallinn** - USSR
—	422	1	**Jerusalem** - Israel
719	417.2	135	**R. Free Europe** - G
—	417.2	100	**BBC** - Cyprus
—	417.2	25	**Norte I** - Portugal
—	417.2	150	**Östersund** - Sweden
—	417.2	2	**Damascus** - Syria
728	412.1	25	**Klagenfurt I** - Aust.
—	412.1	150	**Athens I** - Greece
—	412.1	250	**Deutschlands.** - G
—	412.1	100	**La Coruña** (**RNE**)
737	407.1	40	**Hof** (**RIAS**) - G
—	407.1	100/200	**Tel Aviv** - Israel
—	407.1	5	**Akureyri** - Iceland
—	407.1	300	**Poznan** - Poland
—	407.1	250	**Barcelona** (**RNE**)
—	407.1	20	**Moscow II** - USSR
746	402	100	**Aleppo** - Syria
—	402	30	**Plovdiv** - Bulgaria
—	402	20	**Cottbus** (**DDR**) - G
—	402	120	**Hilversum I** - Holl.
—	402	1	**Tlemcen** - Algeria
755	397.3	20	**Kuopio** - Finland
—	397.3	130	**Timisoara I** - Rum.
—	397.3	135	**Lisboa II** - Portugal
—	397.3	20	**Ravensburg** (**D.funk**) - G
764	392.6	150	**Sottens** - Switzerl.
—	392.6	150/300	**Baghad** - Iraq
—	392.6	10	**Odessa** - USSR
773	388.1	150	**Stockholm** - Sweden
—	388.1	2	**Malmberget** - Sw.
—	388.1	25	**Valencia** (**RNE**), Sp.
—	388.1	30	**Stolnik** - Bulgaria
—	388.1	500	**Cairo I** - Egypt
—	388.1	1	**Salzburg I** - Aust.
—	388.1	0.05	**6 low power** - Aust.
—	388.1	0.1	**Leoben** - Aust.
777	387	100	**Zahedan** - Iran
782	383.6	250	**Deutschlands.** - G
—	383.6	100	**R. Clube Portuguese**
—	383.6	100	**Kiev II** - USSR
—	383.6	2	**Vatican Radio**
786	381	10	**Damascus** - Syria
791	379.2	50	**Thessaloniki I** - Gr.
—	379.2	100	**Limoges I** - France
800	375	100	**München** (**BR**) - G
—	375	100	**Leningrad II**, USSR

kc/s	Metres	kW	Stations
800	375	20	**R. Madrid** - Spain
—	375	100	**Amman** - Jordan
809	370.8	100	**Burghead** - Gt. Br.
—	370.8	5	**Redmoss** - Gt. Br.
—	370.8	2	**Dumfries** - Gt. Br.
—	370.8	100	**Westerglen** - Gt. Br.
—	370.8	135	**Skopje** - Yugosl.
—	370.8	5	**R. Sevilla** - Spain
818	366.7	10	**Trieste I** - Italy
—	366.7	450	**Batra II** - Egypt
—	366.7	300	**Warszawa II** - Pol.
—	366.7	1	**Casablanca I** - Mor.
—	366.7	300	**Vallées-Andorre**
827	363	100	**Sofia I** - Bulgaria
—	363	1	**Rabat I** - Morocco
—	363	1	**Oujda** - Morocco
—	363	40	**Freiburg (SWF)**, G
—	363	0.5	**Koblenz (SWF)** - G
—	363	1,5	**Baden-Baden (SWF)** - G
—	363	1	**Trier (SWF)** - G
—	363	3	**Kaisersl. (SWF)**, G
—	363	5	**R. Barcelona** - Sp.
833	360.5	1	**Benghazi (FBS)** - Libya
836	359	10	**Ylivieska** - Finland
—	359	150	**Nancy I** - France
—	359	5	**Voz Granada** - Sp.
—	359	100	**Beyrouth I** - Leb.
—	359	20	**Kharkov** - USSR
—	359	[illegible]	**Erevan** - USSR
845	355	150	**Roma II** - Italy
—	355	1	**Jerusalem** - Israel
850	352.9	5	**Huelva** - Spain
854	351.3	150	**Bucuresti I** - Rum.
—	351.3	12	**R. Madrid EAJ2**, Sp.
—	351.3	100	**Berlin (RIAS)** - G
—	351.3	0.05	**Setif** - Algeria
863	348	300	**Paris I** - France
—	348	30	**Blagoevgrad** - Bulg.
—	348	10	**Damascus** - Syria
872	344	150	**Frankfurt AFN** - G
—	344	5	**Petöfi II** - Hung.
—	344	36	**Budapest** - Hungary
—	344	20	**R. Zaragoza** - Sp.
—	344	150	**Moscow** - USSR
—	344	5	**Sta. Cruz** - Can. Isl.
—	344	50	**Cairo V** - Egypt
881	340.5	100	**Titograd** - Yugosl.
—	340.5	0.25	**Vukovar** - Yugosl.
—	340.5	100	**Berlin (DDR)** - G
—	340.5	8	**Penmon** - Gt. Br.
—	340.5	5	**Towyn** - Gt. Br.
—	340.5	100	**Washford** - Gt. Br.
890	337.1	200	**Alger II** - Algeria
—	337.1	20	**Linz I** - Austria
—	337.1	20	**Bergen I** - Norway
—	337.1	20	**Kristiansand** - No.
—	337.1	20	**Tröndelag** - Norway
—	337.1	50	**Uzjgorod** - USSR
895	335	50	**R. Teheran** - Iran
899	333.7	150	**Milano I** - Italy
908	330	140	**Brookm.Prk**, Gt. Br.
—	330	200	**Baghdad** - Iraq
—	330	7	**Miercurea** - Rum.
915	326	2	**Paphos** - Cyprus
917	327.2	5	**Tetuan II** - Morocco
—	327.2	20	**Reichenbach (DDR)** - G
—	327.2	50	**Madrid (RNE)** - Sp.
—	327.2	135	**Ljubljana I** - Yugosl.
926	324	150	**Brussels II** - Belg.
—	324	10	**Nis** - Yugoslavia
—	324	10	**Cairo IV** - Egypt
935	321	27	**Rabat** - Morocco
—	321	100	**Agadir** - Morocco
—	321	20	**Barcelona (RNE)** - Spain
—	321	300	**Lvov** - USSR
—	321	10	**Berlin (AFN)** - G
944	318	100	**Toulouse I** - France
—	318	5	**Larissa (FBS)** - Gr.
—	318	20	**Voronej** - USSR
953	314.6	20	**R. Intercont.** - Sp.
—	314.6	3	**L. Palmas** - Can. Isl.

kc/s	Metres	kW	Stations
953	314.6	20	**Aleppo** - Syria
—	314.6	100/15	**Brno** - Czechoslov.
962	312	100	**Turku I** - Finland
—	312	10	**Paris IV** - France
—	312	100	**Tunis II** - Tunesia
—	312	0.05	**4 low power** - Aust.
963	311.6	2	**Istanbul** - Turkey
971	309	5	**Göttingen (NDR)**
—	309	100	**Hamburg (NDR)**
—	309	100	**Langenberg (WDR)**
—	309	150	**Smolensk** - USSR
—	309	1	**Marrakech** - Mor.
976	307.4	0.5	**R. Rezaieh** - Iran
980	306.1	5	**Cairo II** - Egypt
—	306.1	200	**Alger I** - Algeria
—	306.1	2	**Trieste A** - Italy
—	306.1	150	**Göteborg** - Sweden
985	302	100	**Kermanshah** - Iran
989	303.3	300/100	**Berlin (RIAS)** - G
—	303.3	10	**Beyrouth** - Lebanon
998	300.6	10	**Heidelberg (SDR)** Germany
—	300.6	0.2	**Buchen (SDR)** - G
—	300.6	400	**R. Andorra**
—	300.6	100	**Kishinjov** - USSR
1000	300	0.05	**AFRS** - Turkey
1007	297.9	6	**Malaga (RNE)** - Sp.
—	297.9	120	**Hilversum II** - Holl.
—	297.9	50	**Corfu** - Greece
1016	295	300	**Rheinsender (SWF)**
—	295	100	**Baku** - USSR
—	295	1	**Batna** - Algeria
—	295	1	**Tanger II** - Morocco
1025	292.7	100	**Dobl** - Austria
—	292.7	100	**Kronstorf** - Austria
—	292.7	10	**Lauterach II** - Aust.
—	292.7	5	**Mariapfarr II** - Aust.
—	292.7	0.05	**7 low power** - Aust.
—	292.7	0.5	**Haifa** - Israel
—	292.7	5	**R. S. Sebastian** - Sp.
—	292.7	1	**2 low power** - Mor.
1033	290.4	2	**Izmir** - Turkey
1034	290.4	0.25	**Ansbach (AFN)** - G
—	290.4	0.25	**B. Kissingen (AFN)** Germany
—	290.1	20	**Milano II** - Italy
—	290.1	25	**Venezia II** - Italy
—	290.1	10	**Genova II** - Italy
—	290.1	5	**San Remo II** - Italy
—	290.1	5	**Pescara II** - Italy
—	290.1	25	**Napoli II** - Italy
—	290.1	100	**Tallinn I** - USSR
—	290.1	25	**R. Clube Portuguese**
1043	287.6	5	**Thessaloniki** - Gr.
—	287.6	220	**Dresden (DDR)** - G
—	287.6	25	**Sebaa-Aioun** - Mor.
1052	285.3	0.05	**2 low power** - Aust.
—	285.3	20	**Tetuan I** - Morocco
—	285.3	2	**Barnstaple** - Gt. Br.
—	285.3	120	**Start Point** - Gt. Br.
—	285.3	50	**Bacau** - Rumania
—	285.3	50	**R. Tripoli** - Libya
—	285.3	20	**Suhl (DDR)** - G
1060	285	1	**R. Shiraz** - Iran
1061	283	25	**Norte II** - Portugal
—	283	60	**Kalundborg II**, Den.
—	283	20	**Cagliari I** - Italy
—	283	1	**Livorno I** - Italy
1063	282.2	2	**Ankara** - Turkey
1070	280	100	**Paris II** - France
—	280	20	**Dnjepropetr.**, USSR
1079	278	5	**Minia** - Egypt
—	278	5	**Luxor** - Egypt
—	278	2	**Bremerhafen** - G
—	278	60	**Katowice** - Poland
—	278	1	**Souk Ahras** - Alger.
—	278	20	**Plauen (DDR)** - G
—	278	20	**La Voz de Madrid**
1088	276	150	**Droitwich** - Gt. Br.
—	276	7.5	**Postwick** - Gt. Br.
—	276	50	**Tirana** - Albania
1090	275	1	**R. Kerman** - Iran
1097	273.5	150	**Bratislava** - Czecho.
—	273.5	20	**L. Palmas** - Can. Isl.
—	273.5	1	**Haifa** - Israel
1100	272	1	**R. Mashhad** - Iran

kc/s	Metres	kW	Stations
1106	271.2	100	**Munich (AFN)** - G
—	271.2	2.5	**R. Manresa** - Sp.
—	271.2	1.3	**R. Alcoy** - Sp.
—	271.2	2	**R. Huesca** - Sp.
—	271.2	2.5	**R. Extramadura**, Sp.
—	271.2	2	**R. Salamanca** - Sp.
—	271.2	2.5	**R. Vitoria** - Sp.
—	271.2	2	**R. León** - Sp.
—	271.2	3.8	**R. Orense** - Sp.
—	271.2		**R. Linares** - Sp.
—	271.2	2	**R. Ceuta** - Spain
—	271.2	100	**Vilnius II** - USSR
1115	269.1	50	**Bologna II** - Italy
—	269.1	5	**Messina II** - Italy
—	269.1	1	**Trieste II** - **Italy**
—	269.1	1	**Aosta II** - Italy
—	269.1	40	**Bari II** - Italy
—	269.1	10	**Pisa II** - Italy
—	269.1	0.25	**Alta** - Norway
—	269.1	0.25	**Arendal** - Norway
—	269.1	1	**Bergen I** - Norway
—	269.1	1	**Bø i Vesterålen** - Norway
—	269.1	0.25	**Lista** - Norway
—	269.1	0.04	**Mo i Rana** - Norway
—	269.1	1	**Namsos** - Norway
—	269.1	0.25	**Notodden** - Norway
—	269.1	0.25	**Odda** - Norway
—	269.1	20	**Kaliningrad** - USSR
—	269.1	1	**Tanger II** - Morocco
1124	266.9	10	**Barcelona** - Spain
—	266.9	10	**Bruxelles IV** - Belg.
—	266.9	10	**Varna** - Bulgaria
—	266.9	0.1	**Bruck/Mur** - Aust.
—	266.9	0.05	**9 low power** - Aust.
—	266.9	0.1	**Judenburg** - Aust.
—	266.9	0.1	**Kötschach** - Austria
—	266.9	0.1	**Mürzzuschlag** - Austria
—	266.9	0.1	**Villach** - Austria
—	266.9	20	**Leningrad III** - USSR
—	266.9	7	**Oradea** - Rumania
1130	265	10/100	**R. Kuwait** - Kuwait
1133	264.8	0.02	**Alftafjörd** - Iceland
—	264.8	5	**Bilbao (EAJ28)** - Sp.
—	264.8	1	**Voz Palencia** - Sp.
—	264.8	5	**Voz Extremad** - Sp.
—	264.8	1	**Voz Castellon** - Sp.
—	264.8	5	**Voz Asturias** - Sp.
—	264.8	5	**Voz de Vigo** - Sp.
—	264.8	5	**Voz Mediterr.** - Sp.
—	264.8	5	**Voz de Navarra** - Spain
—	264.8	2	**Cadiz** - Spain
—	264.8	2	**Murcia** - Spain
—	264.8	2	**Albacete** - Spain
—	264.8	2	**Almeria** - Spain
—	264.8	2	**Ponferrada** - Spain
—	264.8	2	**Viscaya** - Spain
—	264.8	2	**Calahorra** - Spain
—	264.8	5	**Malaga** - Spain
—	264.8	3	**R. Teruel** - Spain
—	264.8	15	**R. Gredos** - Spain
—	264.8	5	**Voz Guadalquivir** - Spain
—	264.8	3.2	**Voz Ci. Real** - Spain
—	264.8	5	**Voz de Jaen** - Spain
—	264.8	2	**Voz de Lugo** - Spain
—	264.8	2	**R. Zamora** - Spain
—	264.8	?	**La Laguna** - Can. Isl.
—	264.8	135	**Zagreb** - Yugoslavia
—	264.8	20	**Rijeka** - Yugoslavia
—	264.8	50	**Split** - Yugoslavia
—	264.8	2	**Zadar** - Yugoslavia
—	264.8	2	**Güimar** - Can. Isl.
—	264.8	2	**Adana** - Turkey
1142	262.7	40	**Constantine** - Alg.
—	262.7	40	**Oran** - Algeria
—	262.7	0.05	**7 low power** - Aust.
—	262.7	1	**Ulm (AFN)** - Germ.
—	262.7	0.25	**Goeppingen (AFN)** -
—	262.7	0.25	**Hersfeld (AFN)** - G
—	262.7	0.25	**Schweinfurt (AFN)** Germany

kc/s	Metres	kW	Stations
1142	262.7	0.25	**Würzburg (AFN)**, G
—	262.7	5	**Bremerhafen (AFN)** Germany
—	262.7	10	**Stuttgart (AFN)** - G
—	262.7	1	**Florina** - Greece
—	262.7	5	**Sohag** - Egypt
—	262.7	50	**Moscow II** - USSR
1151	260.6	2	**Scarborough**, Gt.Br.
—	260.6	100	**Stagshaw** - Gt. Br.
—	260.6	1	**Marrakech** - Mor.
—	260.6	50	**Cluij** - Rumania
1160	258.6	150	**Strassbourg I** - Fr.
—	258.6	30	**Kardjali** - Bulg.
1165	257.5	2	**Kars** - Turkey
1169	256.6	10	**Porto** - Portugal
—	256.6	6	**Koper** - Yugoslavia
—	256.6	5	**Ulm (SDR)** - G
—	256.6	10	**Heilbronn (SDR)**, Germany
—	256.6	10	**Thessaloniki** - Gr.
—	256.6	150	**Kiev** - USSR
—	256.6	1	**Jerusalem** - Israel
1178	254.7	100	**Hörby** - Sweden
—	254.7	10	**Assuan** - Egypt
—	254.7	10	**Quena** - Egypt
—	254.7	5	**Cuenca (RNE)** - Sp.
—	254.7	10	**BBC** - Malta
—	254.7	2	**Van** - Turkey
1187	252.7	1	**Casablanca II** - Mor.
—	252.7	135	**Szolnoc I** - Hungary
1196	251	300	**Munich (VOA)** - G
—	251	25	**Portoalegre** - Port.
1250	250	0.75	**Izmir** - Turkey
1205	249	100	**Bordeaux I** - France
—	249	60	**Krakow** - Poland
—	249	60	**Rzescow** - Poland
—	249	10	**Haifa** - Israel
1210	248	2	**Gaziantep** - Turkey
1214	247.1	50	**Brookmans Park** - Gt. Bt.
—	247.1	20	**Burghead** - Gt.Br.
—	247.1	10	**Lisnagarvey**, Gt.Br.
—	247.1	50	**Moorside Edge** - Gt. Br.
—	247.1	50	**Westerglen** - Gt.Br.
—	247.1	0.25	**Londonderry**, Gt.Br
—	247.1	0.15	**Plymouth** - Gt. Br.
—	247.1	2	**Redmoss** - Gt. Br.
—	247.1	2	**Redruth** - Gt. Br.
—	247.1	2	**Newcastle** - Gt. Br.
—	247.1	1	**R. Malta** - Malta
—	247.1	20	**Kursk** - USSR
—	247.1	20	**Tallin II** - USSR
1223	245.3	30	**Stara Zagora**, Bulg.
—	245.3	0.05	**Bloemendaal** - Holl.
—	245.3	100	**Falun** - Sweden
1232	243.5	50	**Tanger** - Morocco
—	243.5	100	**Kosice** - Czecho.
1241	241.7	25	**Vaasa** - Finland
—	241.7	20	**Lille II** - France
—	241.7	20	**Lyon II** - France
—	241.7	20	**Marseilles II** - Fr.
-	241.7	20	**Nancy II** - France
—	241.7	20	**Nice III** - France
—	241.7	20	**Brest I** - France
—	241.7	24	**Rennes II** - France
—	241.7	50	**Odessa** - USSR
—	241.7	0.05	**Radlje** - Yugosl.
1248	240	10	**Tenerife** - Can. Isl.
1250	240	5	**Dublin, Cork** - Irel.
—	240	135	**Balatonszab** - Hung.
—	240	0.01	**AFRS** - Turkey
1259	238.3	150	**Rhodos (VOA)** - Gr.
—	238.3	5	**R. Valencia** - Sp.
—	238.3	30	**Zielona Gora** - Pol.
—	238.3	50	**Wroclaw** - Poland
1268	236.6	100	**Novi Sad** - Yugosl.
—	236.6	?	**Madrid** - Spain
—	236.6	?	**Las Palmas** - Can. Isl.
1277	234.9	10	**Alexandria** - Egypt
—	234.9	10	**Assuan II** - Egypt
—	234.9	100	**Strassbourg II** - Fr.
—	234.9	20	**Moscow III** - USSR
1286	233	100	**CS I** - Czechoslov.
—	233	2	**Lisboa** - Portugal

kc/s	Metres	kW	Stations
1295	231.7	30	**Kolarovgrad** - Bulg.
—	231.7	150	**Crowbor.** - Gr. Br.
—	231.7	0.05	**Isl. of Man** - Gt. Br.
—	231.7	1	**Rabat III** - Morocco
—	231.7	2	**Antalya** - Turkey
1304	230	20	**Constantine II**, Alg.
—	230	20	**Oran II** - Algeria
—	230	0.25	**Bamberg (AFN)** - G
—	230	0.25	**Berchtesgaden (AFN)** - G
—	230	1	**Heidelberg (AFN)** - Germany
—	230	0.25	**Regensburg (AFN)** Germany
—	230	0.25	**Fulda (AFN)** - G
—	230	0.25	**Wertheim (AFN)**, G
—	230	160	**Szczecin** - Poland
—	230	30	**Gdansk** - Poland
1313	228.5	100	**Stavanger** - Norway
—	228.5	5	**Las Palmas** - Can. Isl.
—	228.5	0.05	**10 low power** - Aust.
—	228.5	0.1	**Knittelfeld** - Aust.
—	228.5	1	**Florina (FBS)** - Gr.
1315	228	2	**Constantza** - Rum.
1322	226.9	1	**Safi II** - Morocco
—	226.9	150	**Leipzig (DDR)** - G
—	226.9	0.5	**R. Ribatejo** - Port.
—	226.9	100	**Kharkow** - USSR
1325	226.4	100/1	**R. Tehran** - Iran
1330	225.6	0.1	**Brcko** - Yugosl.
1331	225.4		**Aosta** - Italy
—	225.4		**Udine** - Italy
—	225.4		**Catania** - Italy
—	225.4	80	**Roma I** - Italy
—	225.4	50	**Genova I** - Italy
—	225.4	25	**Bologna I** - Italy
—	225.4	25	**Pescara I** - Italy
—	225.4	20	**Bari I** - Italy
—	225.4	12	**Palermo I** - Italy
—	225.4		**Trento** - Italy
—	225.4	1	**Elvas** - Portugal
—	225.4	20	**Kothla-Järve**, USSR
—	225.4		**Pärmu** - USSR
1336	226.6	1.5	**Haifa** - Israel
1340	223.8	25	**Nyiregyháza**, Hung.
—	223.8	25	**Szombathely**, Hung.
—	223.8	15	**Pécs** - Hungary
—	223.8	100	**Lisnagarvey**, Gt. Br.
—	223.8	0.25	**Londonderry** - Gt. Br.
1345	223.2	100/1	**R. Kuwait** - Kuwait
1349	222.4	10	**Nantes I** - France
—	222.4	20	**Bordeaux II** - Fr.
—	222.4	20	**Limoges II** - France
—	222.4	20	**Grenoble I** - France
—	222.4	20	**Toulouse II** - Fr.
—	222.4	0.2	**Korca** - Albania
—	222.4	0.4	**2 low power** - Hung.
—	222.4	20	**Valmiera** - USSR
—	222.4	20	**Kuldiga** - USSR
—	222.4	20	**Madona** - USSR
1350	222.2	20	**Baghdad** - Iraq
1355	221.3	1	**Kavalla** - Greece
1358	221	1	**Viseu** - Portugal
—	221	20	**Bremen** - Germany
—	221	1	**Tirana** - Albania
—	221	0.5	**Haifa** - Israel
1367	219.5	0.5	**Trento** - Italy
—	219.5	2	**Verona** - Italy
—	219.5	1	**Bologna** - Italy
—	219.5	2	**Firenze** - Italy
—	219.5	1	**Pisa** - Italy
—	219.5	1	**Siena** - Italy
—	219.5	1	**Catania** - Italy
—	219.5	1	**Bari** - Italy
—	219.5	1	**Messina** - Italy
—	219.5	2	**Palermo** - Italy
—	219.5	2	**Sassari** - Italy
—	219.5	25	**Venezia III** - Italy
—	219.5	12	**Napoli III** - Italy
—	219.5	10	**Milano III** - Italy
—	219.5	10	**Genova III** - Italy
—	219.5	5	**Roma III** - Italy
—	219.5	5	**Torino III** - Italy
—	219.5	0.5	**Savièse** - Switz.

kc/s	Metres	kW	Stations
1367	219.5	50	**Lodz II** - Poland
—	219.5	60	**Bialystok** - Poland
—	219.5	5	**Lublin** - Poland
—	219.5	10	**Porto** - Portugal
—	219.5		**Moscow II** - USSR
1376	218	150	**Lille I** - France
—	218	50	**Kiev II** - USSR
1385	217	20	**Voz España** - Sp.
—	217	50	**Athens II** - Greece
—	217	150	**Kaunas** - USSR
1390	215.8	100	**R. Ahwaz** - Iran
1394	215.2	1	**Tripoli (FBS)** - Lib.
—	215.2	25	**Graz** - Austria
—	215.2	0.05	**9 low power** - Aust.
—	215.2	0.2	**Spittel/Drau** - Aust.
—	215.2	0.2	**Zell/Zee** - Aust.
—	215.2	1	**Augsburg (AFN)**, G
—	215.2	0.25	**Bitburg (AFN)** - G
—	215.2	0.25	**Hof (AFN)** - G
1394	215.2	2	**Albacete** - Spain
—	215.2	2	**Alicante** - Spain
—	215.2	2	**Astorga** - Spain
—	215.2	2	**Badajoz** - Spain
—	215.2	2	**Palma-Mallorca**, Sp.
—	215.2	2	**Córdoba** - Spain
—	215.2	2	**Reus** - Spain
—	215.2	2	**S. Sebastian** - Spain
—	215.2	2	**Zamora** - Spain
—	215.2	1	**Almeria** - Spain
—	215.2	1	**Huesca** - Spain
—	215.2		**La Fron ra** - Spain
—	215.2		**Logroño** - Spain
—	215.2		**Santander** - Spain
—	215.2		**Vigo** - Spain
—	215.2	2	**Zaragoza** - Spain
—	215.2	0.15	**Borås** - Sweden
—	215.2	0.25	**Göteborg** - Sweden
—	215.2	0.15	**Halmstad** - Sweden
—	215.2	0.15	**Hudiksvall** - Sw.
—	215.2	0.15	**Karlstad** - Sweden
—	215.2	0.15	**Kiruna** - Sweden
—	215.2	0.15	**Ludvika** - Sweden
—	215.2	0.15	**Luleå** - Sweden
—	215.2	0.15	**Malmberget** - Sw.
—	215.2	0.15	**Mariestad** - Sweden
—	215.2	0.15	**Piteå** - Sweden
—	215.2	0.15	**Stockholm** - Sweden
—	215.2	0.15	**Sundsvall** - Sweden
—	215.2	0.15	**Söderhamn** - Sw.
—	215.2	0.15	**Uddevalla** - Sweden
—	215.2	0.15	**Varberg** - Sweden
—	215.2	0.15	**Vänersborg** - Sw.
—	215.2	0.15	**Västervik** - Sweden
—	215.2	0.15	**Örnsköldsvik** - Sw.
—	215.2	1	**Angra** - Azores
1400	214	0.01	**2 low power** - Icel.
1403	213.8	10	**Montpellier I** - Fr.
—	213.8	20	**Rouen** - France
—	213.8	4	**Nice II** - France
—	213.8	20	**Brest II** - France
—	213.8	4	**Bastia** - France
—	213.8	20	**Cl. Ferrand** - Fr.
—	213.8	20	**Pau** - France
—	213.8	5	**Comotini** - Greece
—	213.8	20	**Tartu** - USSR
—	213.8	7.5	**Limassol (FBS)** - Cyprus
1412	212.4	3	**B. Mergentheim** - G
—	212.4	2	**R. Galicia** - Spain
—	212.4	5	**R. Bilbao** - Spain
—	212.4	2	**R. Navarra** - Spain
—	212.4	5	**R. Granada** - Spain
—	212.4	2	**R. Castellón** - Spain
—	212.4	2	**R. Murcia** - Spain
—	212.4	9	**R. Castilla** - Spain
—	212.4	2	**R. Gijon** - Spain
—	212.4	2	**R. Segovia** - Spain
—	212.4	0.3	**R. Ci. Real** - Spain
—	212.3	0.2	**R. Tarrasa** - Spain
—	212.3	1	**R. Onteniente** - Sp.
—	212.2	0.5	**R. Algeciras** - Spain
—	212	5	**Maribor** - Yugosl.
—	212	2	**Osijek** - Yugoslavia
—	212	20	**Gospic** - Yugoslavia
—	212	2	**Split** - Yugoslavia
—	212	100	**Pristina** - Yugosl.

kc/s	Metres	kW	Stations
1412	212	2	**Helsinki II** - Finl.
—	212	0.4	**Turku II** - Finland
—	212	1	**Cl. Tenerife** - Can. Isl.
—	212	0.02	**6 low power** - Icel.
1421	211.2	40	**Alger III** - Algeria
—	211.2	100	**BBC** - Cyprus
—	211.2	100	**R. Saarbrücken** - G
—	211.2	1	**Tampere** - Finland
—	211.2	10	**Riga** - USSR
1425	211	1	**Malta (FBS)**
—	211	7.5	**Nicosia** - Cyprus
—	211	1	**R. Isfahan** - Iran
1428	210.5	2	**Baia Mare** - Rum.
1430	210	10	**Copenhagen II** - Denmark
—	210	70	**Skive** - Denmark
—	210	0.2	**Gjirokastra** - Alb.
—	210		**Berlin (DDR)** - G
—	210		**Jaen** - Spain
—	210		**Lugo** - Spain
—	210		**Valladolid** - Spain
—	210		**Vitoria** - Spain
—	210		**Puertollano** - Spain
—	210		**Caceres** - Spain
—	210		**Barcelona** - Spain
—	210		**Avila** - Spain
—	210	2	**Figueras** - Spain
—	210	2	**Huelva** - Spain
—	210	2	**León** - Spain
—	210	2	**Lérida** - Spain
—	210	2	**Lorca** - Spain
—	210	0.4	**Menorca-Mahon**, Sp.
—	210	2	**Malaga** - Spain
—	210	2	**Valencia** - Spain
1439	208	350	**Luxembourg II** -
—	208	1	**Tobruk (FBS)**, Lib.
—	208	1	**Nicosia (FBS)**, Cyp.
1448	207.2	20	**Torino II** - Italy
—	207.2	12	**Palermo II** - Italy
—	207.2	5	**Ancona II** - Italy
—	207.2	5	**Catania II** - Italy
—	207.2	5	**Firenze II** - Italy
—	207.2	5	**Sassari II** - Italy
—	207.2	0.1	**Alessandria** - Italy
—	207.2	0.1	**Biella** - Italy
—	207.2	0.1	**Cueno** - Italy
—	207	1	**Como** - Italy
—	207.2	1	**Sondrio** - Italy
—	207.2	1	**Brucino** - Italy
—	207.2	1	**Trento** - Italy
—	207.2	1	**Merano** - Italy
	207.2	0.1	**Belluno** - Italy
—	207.2	1	**Cortina** - Italy
—	207.2	2	**Verona** - Italy
—	207.2	1	**Udine** - Italy
—	207.2	1	**La Spezia** - Italy
—	207.2	0.1	**Siena** - Italy
—	207.2	1	**Perugia** - Italy
—	207.2	0.1	**Ascoli P.** - Italy
—	207.2	1	**Campob.** - Italy
—	207.2	0.1	**Benevento** - Italy
—	207.2	0.1	**Salerno** - Italy
—	207.2	1	**Foggia** - Italy
—	207.2	1	**Lecce** - Italy
—	207.2	10	**Salento** - Italy
—	207.2	1	**Taranto** - Italy
—	207.2	1	**Matera** - Italy
—	207.2	0.1	**Potenza** - Italy
—	207.2	1	**Catanzaro** - Italy
—	207.2	1	**Cosenza** - Italy
—	207.2	1	**Agrigento** - Italy
—	207.2	1	**Caltanisetta** - Italy
—	207.2	1	**Cagliari** - Italy
—	207.2	3	**Pyrgos** - Greece
—	207.2	0.15	**Falkenberg** - Sw.
—	207.2	0.5	**Gävle** - Sweden
—	207.2	1.5	**Hudiksvall** - Sw.
—	207.2	1.5	**Hälsingborg** - Sw.
—	207.2	2	**Jönköping** - Sweden
—	207.2	1.5	**Karlskrona** - Sw.
—	207.2	0.15	**Kristinehamn** - Sw.
—	207.2	0.15	**Säffle** - Sweden
—	207.2	2	**Trollhättan** - Sw.
—	207.2	2	**Umeå** - Sweden
—	207.2	0.5	**Visby** - Sweden

kc/s	Metres	kW	Stations
1448	207.2	2	**Västerås** - Sweden
—	207.2	1	**Coimbra** - Portugal
1457	206	0.05	**3 low power** - Aust.
—	206	2	**Redruth** - Gt. Br.
—	206	20	**Clevedon** - Gt. Br.
—	206	10	**Bartley** - Gt. Br.
—	206	2	**Brighton** - Gr. Br.
—	206	1	**Folkestone** - Gt. Br.
—	206	2	**Bexhill** - Gt. Br.
—	206	20	**Craiova** - Rumania
1462	205	1	**R. Gorgan** - Iran
1466	204.6	400	**Monte Carlo** - Mon.
—	204.6	0.25	**Geilo** - Norway
—	204.6	1	**Kautekeino** - Nor.
—	204.6	1	**Narvik** - Norway
—	204.6	0.25	**Porsgrunn** - Nor.
—	204.6	0.25	**Sandnessjøen** - Nor.
—	204.6	1	**Svalbard** - Norway
1475	203.4	2	**R. Reus** - Spain
—	203.4	5	**R. Mallorca** - Spain
—	203.4	2	**R. Rioja** - Spain
—	203.4	2	**R. Asturias** - Spain
—	203.4	2	**R. Gandia** - Spain
—	203.4	1	**R. Santander** - Sp.
—	203.4	2	**R. Pontevedra** - Sp.
—	203.4	2	**R. Almeria** - Spain
—	203.4	1	**R. Zamora** - Spain
—	203.4	3	**R. Sabadell** - Spain
—	203.4	2	**R. Córdoba** - Spain
—	203.4	5	**R. Elche** - Spain
1475	203.4	150	**Wien I** - Austria
—	203.4	0.05	**4 low power** - Aust.
—	203.4	1	**R. Sanandaj** - Iran
1480	202.7	0.4	**La Orotava** - C. Isl.
1484	202.2	0.2	**St. Pölten** - Austria
—	202.2	7	**Pavlovo** - Bulgaria
—	202.2	2	**Copenhagen I** - Den.
—	202.2	0.25	**Ålborg** - Denmark
—	202.2	0.25	**Tønder** - Denmark
—	202.2	1	**Pietarsaari** - Finl.
—	202.2	1	**Pori** - Finland
—	202.2	0.05	**4 low power** - Fr.
—	202.2	1	**Montpellier II** - Fr.
—	202.2	1	**Perpignan** - France
—	202.2	1	**Dijon** - France
—	202.2	1	**Poitiers** - France
—	202.2	0.5/1	**R. Gibraltar**
—	202.2	2	**Brasov** - Rumania
—	202.2	2	**Sibiu** - Rumania
—	202.2	2	**Tg. Mures** - Rum.
—	202.2	2	**Barrow** - Gt. Br.
—	202.2	2	**Ramsgate** - Gt. Br.
—	202.2	1	**Volos** - Greece
—	202.2	5	**Freies Berlin** - G
—	202.2	0.2	**Wertheim (SDR)**, G
—	202.2	0.2	**Heidenheim (SDR)** Germany
—	202.2	0.2	**Eberbach (SDR)**, G
—	202.2	0.2	**Mosbach (SDR)** - G
—	202.2	0.2	**Bopfingen (SDR)**, G
—	202.2	0.2	**Adelsheim (SDR)**, G
—	202.2	0.25	**Keflavik** - Iceland
—	202.2	0.02	**3 low power** - Icel.
—	202.2	2	**Bolzano** - Italy
—	202.2	0.1	**Bressanone** - Italy
—	202.2	0.1	**Vicenza** - Italy
—	202.2	0.1	**Gorizia** - Italy
—	202.2	0.1	**Savona** - Italy
—	202.2	0.1	**Arezzo** - Italy
—	202.2	0.1	**Terni** - Italy
—	202.2	1	**Aquila** - Italy
—	202.2	0.1	**Teramo** - Italy
—	202.2	1	**Avellino** - Italy
—	202.2	1	**Brindisi** - Italy
—	202.2	1	**Nuoro** - Italy
—	202.2	1	**R. Madeira**
—	202.2	10	**Benghazi** - Libya
—	202.2	1	**Tobruk (FBS)**, Lib.
—	202.2	0.25	**Brønnøysund** - Nor.
—	202.2	0.25	**Glomfjord** - Norway
—	202.2	1	**Karasjok** - Norway
—	202.2	0.25	**Mosjøen** - Norway
—	202.2	0.25	**Rjukan** - Norway
—	202.2	8	**Lodz** - Poland
—	202.2	1	**Kielce** - Poland
—	202.2	1	**Olsztyn** - Poland

kc/s	Metres	kW	Stations
1484	202.2	2	**Zakopane** - Poland
—	202.2	2	**Szczecinek** - Poland
—	202.2	2	**Slupsk** - Poland
—	202.2	1	**Jel. Góra** - Poland
—	202.2	0.5	**Limassol** - Cyprus
—	202.2	5	**Bruxelles IV** - Belg.
—	202.2	0.5	**Bruxelles III** - Belg.
—	202.2	2	**Belgrade II**, Yugosl.
—	202.2	1.5	**Svetozarevo** - Yugoslavia
—	202.2	2	**Novi Sad II**, Yugosl.
—	202.2	2	**Zagreb II** - Yugosl.
—	202.2	0.05	**13 low power** - Yugoslavia
—	202.2	2	**Dubrovnik** - Yugosl.
—	202.2	2	**Pula** - Yugoslavia
—	202.2	2	**Rijeka II** - Yugosl.
—	202.2	2	**Sisak** - Yugoslavia
—	202.2	2	**Ljubljana II** - Yugoslavia
—	202.2	2	**Celje** - Yugoslavia
—	202.2	2	**Crnomelj** - Yugosl.
—	202.2	1	**M. Sobota** - Yugosl.
—	202.2	2	**Tuzla** - Yugoslavia
—	202.2	2	**Bitola** - Yugoslavia
—	202.2	2	**Gostivar** - Yugosl.
—	202.2	0.15	**Kicevo** - Yugoslavia
—	202.2	0.15	**Kocani** - Yugoslavia
—	202.2	2	**Ohrid** - Yugoslavia
—	202.2	0.15	**Resen** - Yugoslavia
—	202.2	0.10	**Titov Veles**, Yugosl.
—	202.2	2	**Praha** - Czech.
—	202.2	2	**Bratislava** - Czech.
—	202.2	5	**Riga** - USSR
—	202.2	1	**Casablanca III**, Mor.
—	202.2	0.25	**AFRS** - Morocco
1489	201.4	0.02	**Hellissandur** - Icel.
1493	201	4	**Bayonne** - France
—	201	0.05	**5 low power** - Fr.
—	201	1	**Marseille III** - Fr.
—	201	1	**Strasbourg III** - Fr.
—	201	1	**Ajaccio** - France
—	201	1	**Besançon** - France
—	201	5	**Rhodos** - Greece
—	201	0.05	**4 low power** - Aust.
—	201	50	**Tallinn** - USSR
—	201	20	**Gomel** - USSR
1500	200	0.2	**AFRS** - Azores
1502	199.7	0.25	**Garmisch (AFN)**, G
—	199.7	0.25	**Giessen (AFN)** - G
—	199.7	0.25	**Rothwesten (AFN)** - Germany
—	199.7	0.25	**Wildflecken (AFN)** Germany
—	199.7	2	**Asturias** - Spain
—	199.7	2	**Bilbao** - Spain
—	199.7	2	**Burgos** - Spain
—	199.7	2	**Ci. Real** - Spain
—	199.7	2	**Ibiza** - Spain
—	199.7	2	**Murcia** - Spain
—	199.7	2	**Pamplona** - Spain
1502	199.7	2	**Puertollano** - Spain
—	199.7	2	**Salamanca** - Spain
—	199.7	2	**R. Vida** - Spain
—	199.7		**Aviles** - Spain
—	199.7		**Castellon** - Spain
—	199.7		**Granada** - Spain
—	199.7		**Guadalajara** - Spain
—	199.7		**La Coruña** - Spain
—	199.7		**Orense** - Spain
—	199.7	0.8	**Münster (WDR)**, G
—	199.7	500	**Warszawa III** - Pol.
—	199.7	0.05	**Slovenj Gradec** - Yugoslavia
1510	198.5	0.02	**3 low power** - Icel.
1511	198.5	20	**Brussels III** - Belg.
—	198.5		**Berlin** - Germany
—	198.5	0.2	**Patras** - Greece
—	198.5	5	**Chania** - Greece
—	198.5	0.05	**Ptuj** - Yugoslavia
1520	197.4	1	**CS I** - Czecho.
—	197.4	0.02	**Reydarfjörd** - Icel.
—	197.4	2	**R. Toledo** - Spain
—	197.4	2	**R. Gerona** - Spain
—	197.4	2	**R. Lérida** - Spain
—	197.4	2	**R. Alicante** - Spain

kc/s	Metres	kW	Stations
1520	197.4	1.7	**R. Alcira** - Spain
—	197.4	2	**R. Albacete** - Spain
—	197.4	2	**R. Valladolid** - Sp.
—	197.4	5	**R. Vigo** - Spain
—	197.4	1	**R. Jerez** - Spain
—	197.4	2	**R. Jaen** - Spain
—	197.4	1	**R. Lugo** - Spain
—	197.4	1	**R. Melilla** - Spain
—	197.4	5	**R. Miramar** - Spain
—	197.4	2	**R. Coruña** - Spain
1529	196.2	0.075	**Porjus** - Sweden
—	196.2	100	**Vatican** Radio
—	196.2	0.3	**Funchal,** Madeira I.
1538	195	300	**Mainflingen (D.funk)** - G
1545	194.2	0.02	**Stödvarfjörd** - Icel.
1546	194	0.25	**Belfast** - Gt. Br.
—	194	0.25	**Bournemouth** - Gt. Br.
—	194	0.25	**Dundee** - Gt. Br.
—	194	0.25	**Exeter** - Gr. Br.
—	194	0.25	**Stockton** - Gt. Br.
—	194	1	**Brighton** - Gr. Br.
—	194	1	**Fareham** - Gr. Br.
—	194	1	**Leeds** - Gt. Br.
—	194	1	**Liverpool** - Gt. Br.
—	194	1	**Preston** - Gt. Br.
—	194	1	**Plymouth** - Gt. Br.
—	194	1	**Redrouth** - Gt. Br.
—	194	1	**Swansea** - Gt. Br.
—	194	5	**Seelow (DDR)** - G
—	194	0.05	**4 low power** - Aust.
—	194	50	**Vinnitsa** - USSR
1554	193.1	60	**Nice I** - France
—	193.1	20	**Baranovitchi,** USSR
1562	192.1	1.25	**Amalias** - Greece
—	192.1	1	**Colvilha** - Portugal
—	192.1	2	**Borås** - Sweden
—	192.1	0.5	**Eskilstuna** - Sweden
—	192.1	2	**Halmstad** - Sweden
—	192.1	2	**Kalmar** - Sweden
—	192.1	1.5	**Karlstad** - Sweden
—	192.1	0.5	**Kiruna** - Sweden
—	192.1	2	**Malmö** - Sweden
—	192.1	1.5	**Norrköping** - Sw.
—	192.1	0.06	**Söderhamn** - Sw.
—	192.1	0.5	**Uddevalla** - Sweden
—	192.1	2	**Uppsala** - Sweden
—	192.1	2	**Varberg** - Sweden
—	192.1	0.5	**Örebro** - Sweden
—	192.1	1.5	**Örnsköldsvik** - Sw.
—	192.1	0.5	**Basel** - Switzerl.
—	192.1	0.5	**Coire** - Switzerl.
—	192.1	0.5	**Sool** - Switzerland
—	192.1	0.05	**Brezice** - Yugoslavia
1570	191.1	10	**Flensburg** - Germ.

kc/s	Metres	kW	Stations
1570	191.1	20	**Bernburg (DDR),** G
—	191.1	1	**Voz Valladolid** - Sp.
—	191.1	2	**Voz Léon** - Spain
—	191.1	2	**Voz Alicante** - Sp.
—	191.1	1	**Voz Alava** - Spain
—	191.1	5	**Voz Levante** - Sp.
—	191.1	5	**Voz Guipuzcoa** - Sp.
—	191.1	2	**Voz Cantabria** - Sp.
—	191.1	5	**Voz Cataluña** - Sp.
—	191.1	1.5	**Voz Andalusia** - Sp.
—	191.1	2	**Soria** - Spain
—	191.1		**Galicia** - Spain
—	191.1	2	**Baleares** - Spain
—	191.1	5	**Zaragoza** - Spain
—	191.1	1	**Huelva** - Spain
—	191.1	5	**R. Badajoz** - Spain
—	191.1	2	**R. Tortosa** - Spain
—	191.1	2	**R. Tarrega** - Spain
—	191.1	3	**Voz Mancha** - Spain
—	191.1	2	**R. Atalaya** - Spain
—	191.1	2	**Voz Gerona** - Spain
—	191.1	3	**R. Marbella** - Spain
—	191.1	1.5	**R. Orense** - Spain
—	191.1	3	**Voz Lerida** - Spain
—	191.1	2	**Voz del Miño** - Sp.
—	191.1	5	**R. J. Asturias** - Sp.
—	191.1	2	**R. J. Barcelona,** Sp.
—	191.1	2	**R. J. Béjar** - Spain
—	191.1	2	**R. J. Burgos** - Spain
—	191.1	0.25	**Heraklion** - Greece
—	191.1	0.025	**2 low power** - Turk.
—	191.1	1	**Santa Maria** - Azor.
1578	190.1	2	**Verano** - Italy
—	190.1	0.1	**Gorizia** - Italy
—	190.1	0.25	**La Spezia** - Italy
—	190.1	0.1	**Carrara** - Italy
—	190.1	1	**Perugia** - Italy
—	190.1	0.1	**Terni** - Italy
—	190.1	2	**Ancona** - Italy
—	190.1	1	**Aquila** - Italy
—	190.1	1	**Campob.** - Italy
—	190.1	0.1	**Brindisi** - Italy
—	190.1	0.04	**2 low power** - Italy
—	190.1	0.1	**Lecce** - Italy
—	190.1	1	**Taranto** - Italy
—	190.1	1	**Matera** - Italy
—	190.1	1	**Potenza** - Italy
—	190.1	1	**Catanzaro** - Italy
—	190.1	1	**Cosenza** - Italy
—	190.1	1	**Agrigento** - Italy
—	190.1	1	**Nuoro** - Italy
—	190.1	1	**Sassari** - Italy
—	190.1	10	**Porto** - Portugal
—	190.1	10	**Fredrikstad** - Nor.
—	190.1	1.3	**Nordkapp** - Norway
1580	190	0.01	**AFRS** - Turkey

kc/s	Metres	kW	Stations
1586	189.1	5	**Kiel (NDR)** - G
—	189.1	5	**Osnabrück (NDR)** - Germany
—	189.1	5	**Bonn (WDR)** - G
—	189.1	3	**Kleve (WDR)** - G
—	189.1	20	**Hannover (NDR),** G
—	189.1	40	**Oldenburg (NDR)** - Germany
1594	188.2	0.05	**3 low power** - Aust.
—	188.2	5	**Bredene** - Belgium
—	188.2	0.05	**Isle of Man** - Gt. Br.
—	188.2	15	**Miskolc** - Hungary
—	188.2	0.4	**Magyaróvár** - Hung.
—	188.2	15	**Balatonszab** - Hung.
—	188.2	0.6	**Bougie** - Algeria
—	188.2	2	**Esbjerg** - Denmark
—	188.2	1	**Nimes** - France
—	188.2	0.05	**6 low power** - Fr.
—	188.2	7.5	**Hengelo** - Holland
—	188.2	7.5	**Hoogezand** - Holl.
—	188.2	7.5	**Hulsberg** - Holland
—	188.2	0.01	**AFRS** - Turkey
—	188.2	1	**AFRS** - Libya
—	188.2	2	**Ostrava** - Czech.
1594	188.2	1	**Opole** - Poland
—	188.2	1	**Koszalin** - Poland
—	188.2	1	**Gizycko** - Poland
—	188.2	10	**Lisboa** - Portugal
—	188.2	1	**Athens (AFRS),** Gr.
—	188.2	0.1	**AFRS** - Morocco
—	188.2	0.25	**AFRS** - Morocco
—	188.2	2	**Bolzano** - Italy
—	188.2	0.1	**Bressanone** - Italy
—	188.2	1	**Brunico** - Italy
—	188.2	1	**Merano** - Italy
—	188.2	2	**Trieste** - Italy
—	188.2	1	**Livorno** - Italy
—	188.2	1	**Cagliari** - Italy
—	188.2	0.15	**Boden** - Sweden
—	188.2	0.2	**Jönköping** - Sweden
—	188.2	0.15	**Kristinehamn** - Sw.
—	188.2	0.075	**Porjus** - Sweden
—	188.2	0.15	**Säffle** - Sweden
—	188.2	0.15	**Trollhättan** - Sw.
—	188.2	0.15	**Umeå** - Sweden
—	188.2	2	**Buje** - Yugoslavia
—	188.2	0.60	**Karlovac** - Yugosl.
—	188.2	0.05	**4 low power** - Yugoslavia
—	188.2	1	**Marrakech** - Mor.
1602	187	20/40	**Nürnberg I (BR),** G
—	187	20	**Land/Isar (BR)** - G
—	187	20	**Kirchheim (BR),** G
—	187	1	**Hof (BR)** - Germ.
—	187	1	**Coburg (R)** - Germ.
—	187	1	**Regensburg (BR),** G

SHORT WAVE STATIONS OF THE WORLD

*Standard Frequency Station. **Time Signal Station. Br. = Brazil, Cl. = Cultura, Col. = Colombia, Czecho. = Czechoslovakia, Ger. = Germany, Guat. = Guatemala, Hon. = Honduras, Isl. = Island, Venez. = Venezuela.

People of China freq's are omitted from this list. All freq's are shown on pages 167 & 168.

kc	m	kW	Call	Stations & countries	Rem.
2130	140.9	0.5		R.Dif. Brasileira, Brazil	
2160	139.39	0.25	XEVJ	Chipancingo, Mexico	
2246	133.6	4		St. Denis, Reunion	
2326	129.5	20		Paradys, So. Africa	
2330	128.7	1	YDI6	Djember, Indonesia	
2340	128.4	1	YVPL	R. Nueva Esparta, Venezuela	
	128.4	0.2	TGRW	S. Cruz Barillas, Guatemala	
	128.4			Fukien, China	
2346	128.2	20		Paradys, So. Africa	
2350	127.6			Shantung, China	
	127.6	1	YDJ3	Jogjakarta, Indonesia	
	127.6	0.15		Manokwari, Indonesia	
	127.6	1	YDW	Pontianak, Indonesia	
	127.6	0.5	TGSC	Voz Candelaria, Guatemala	
	127.6	1	ZYB	R. Dif. Itacoatiara, Brazil	
	127.6	1	YVPH	R. Guarico, Venezuela	
2355	127.4	2.5		Lusaka, Zambia	
2360	127.1	0.5	TGBA	R. Maya Barillas, Guatemala	
	127.1	0.25		R.Dif. Parintins, Brazil	
	127.1	1		R. Cult. Carauru, Brazil	

kc	m	kW	Call	Stations & countries	Rem.
2360	127.1	0.5	YVQG	R. Carupano, Venezuela	
2370	126.6	1	YDI3	Surabaja, Indonesia	
	126.6	0.25		R.Cl. Fluminense, Brazil	
	126.6	1	YVQP	R. Puerto La Cruz, Venez.	
2376	126.3	20		Paradys, So. Africa	
2380	126.0	0.35	XESE	Mexico City, Mexico	
	126.0	0.25		R. Educ. Limeira, Brazil	
2390	125.5	1	YDN	Banda Atjeh, Indonesia	
	125.5	1	YDA6	Tjirebon, Indonesia	
	125.5	0.5	XEJN	Mexico City, Mexico	
	125.5	0.5	ZYV71	R. Mundo Melhor, Brazil	
	125.5	0.5		R. Cult. Monte Alto, Brazil	
2400	125.0	0.1		R. Mossoró, Brazil	
	125.0	0.5		R.Dif. Amparo, Brazil	
2402	124.74	0.06	HJDT	R. Nutibara, Colombia	
2410	124.5	0.25	VL9CG	R. Goroka, New Guinea	
	124.5	0.25	4VU	R. Lumiere, Haiti	
	124.5	1		R. Sirena, Brazil	
2420	124.0	0.25	YDA2	Bandung, Indonesia	
	124.0	1		Biak, Indonesia	

kc	m	kW	Call	Stations & countries	Rem.
2420	124.0	0.25	YDU7	Singaradja, Indonesia	
	124.0	0.5		R. São Carlos, Brazil	
	124.0	0.25		R. Carolina, Brazil	
2425	123.7	2.5		Gwelo, Rhodesia	
2430	123.5	1	YDK2	Palembang, Indonesia	
	123.5	0.25		Dif. Rio Bonito, Brazil	
	123.5	1	YVPM	Esc. Radiofonicas, Venez.	
2440	122.9	1	YDG2	Surakarta, Indonesia	
	122.9	1	YVLG	R. Girardot, Venezuela	
2450	122.5	0.25	4VSO	R. St. 4VEH, Haiti	
	122.5	0.5	ZYR231	Cultura de Aracatuba, Brazil	
	122.5	1	YVOX	R. Los Llanos, Venezuela	
2455	122.2	10		Lusaka, Zambia	
2460	121.9	1	YDB	Djakarta, Indonesia	
	121.9	0.5	ZYR99	R. Cacique, Brazil	
2470	121.5	5	HCVA4	Estacion de la Alegria, Ecuad.	
	121.5	1	YVNI	R. Carora, Venezuela	
2480	121.0	1	YDL	Padang, Indonesia	
	121.0	1		R. Braganca, Brazil	
	121.0	0.35	HCGB4	R. Nac. Espejo, Ecuador	
	121.0	1	YVPD	La Voz de Avila, Venezuela	
2485	120.7			Purwokerto, Indonesia	
2490	120.5	0.5		Fak-Fak, Indonesia	
	120.5	1	YDK6	Djambi, Indonesia	
	120.5	0.3	YDQ	Makassar, Indonesia	
	120.5	0.45	HCHW2	R. Rey, Ecuador	
	120.5	1	YVSV	R. Naiguata, Venezuela	
*2500	120	0.5	MSF	Teddington, Gt. Britain	
*	120	1	WWV	Lanham, USA	
*	120	1	WWVH	Lanham, USA	
*	120	2	JJY	Tokyo, Japan	
*	120	1	OMA	Praha, Czechoslovakia	
*	120	0.3	ZLFS	Lower Hutt, New Zealand	
*	120	0.25	FFH	Bagneux, France	
2510	119.5	10	HLK50	Seoul, Korea	
2614	114.8		DAN	Norddeich R, Germany	
2850	105.3	5/50		Pyongyang, Korea (Dem.R)	
*3170	94.06	8	OLB5	Praha, Czechoslovakia	
3200	93.75	0.25		Em. Reg. do Norte, Moçamb.	
3202	93.69	2		Bangkok, Thailand	
3204	93.64	5		Ibadan (NBC), Nigeria	
3205	93.60	10	YDA	Bandung, Indonesia	
	93.60	10		AIR, Lucknow, India	
	93.60	5	VQO3	Solomon Islands	
3210	93.44	0.25		Quelimane, Moçambique	
3215	93.30	5/100		R.Cl. de Mozambique	
	93.30	3/5	BED59	Taipei (BCC), Taiwan	
	93.30	0.25	HCLP3	Voz El Oro, Ecuador	
	93.30	0.3	OBZ4C	R. Mundo, Peru	
3220	93.17	0.3	VTW3	Tarawa, Gilbert Isl.	
	93.17	1.5	HCRE1	R. Nac. Espejo, Ecuador	
3222	93.10	30		R. Mauritania, Mauritania	
	93.10	5		Tsanagur, Mongolia	
3223	93.09	2.5		AIR, Simla, India	
	93.09	1	YDV5	Mataram, Indonesia	
	93.09	15		Male Sinico R, Maldive Isl.	
3225	93.05	10		ELWA, Liberia	
3230	93.00	1	BED31	Taipei (BCC), Taiwan	
	93.00	10	VRH8	Suva, Fiji Isl.	
	93.00	0.5	OBX7D	R. El Sol, Peru	
3232	92.82	30		Tananarive, Malagasy Rep.	
	92.82	10	YDG	Surakarta, Indonesia	
3235	92.74	10		AIR, Gauhati, India	
3240	92.59	1.3/20		Accra, Ghana	
	92.59	0.3		Beira, Mozambique	
	92.59	50		Baghdad, Iraq	
	92.59	0.2	HCJC1	R. Atuntaqui, Ecuador	
	92.59	1	OBX4U	R. América, Peru	
3241	92.56	4	YDR3	Ambon, Indonesia	
	92.56	1	YDM7	Sibolga, Indonesia	
3242	92.53	25		R. Abidjan, Ivory Coast	
3245	92.45	0.25	VL8BK	R. Kerema, New Guinea	
	92.45	0.5	HIAF	R. HIAF, Dominican Rep.	
	92.45	0.2	HCLM3	Voz de Pasaje, Ecuador	
	92.45	1	YVKT	R. Libertador, Venezuela	
3250	92.31	20		Paradys, So. Africa	
	92.31	1	YDO	Bandjarmasin, Indonesia	
	92.31	0.4	OAZ4G	R. La Oroya, Peru	
3251	92.28	5		R. Tanzania, Tanzania	
3255	92.15	10	ELBC	Liberian Bc. Corp, Liberia	
	92.15	0.5	ZYN62	R.Cl. de Marilia, Brazil	
	92.15	1	YVQL	La Voz del Tigre, Venezuela	
3259	92.05	5	YDV	Kupang, Indonesia	
	92.05	20		R. Malaysia, Sarawak	
3260	92.02	5/100		R.Cl. de Mozambique	
	92.02	4		R. Niger, Niger	
	92.02	0.15		Merauke, Indonesia	
3264	91.90	4		R. TV Congolaise, Congo	
3265	91.87	0.25	ZK6	R. Rarotonga, Cook Isl.	
	91.87	1	HIRM	R. Sol, Dominican Rep.	
	91.87	4	ZYR79	R. Ribeirao Preto, Brazil	
	91.87	1	ZYK21	R. Tamandaré, Brazil	
	91.87	2	ZFY	R. Demerara, Br. Guiana	
	91.87	0.2	HCMZ6	La Voz del Rio Chimbro, Ec.	
	91.87	1	YVOC	R. Nirgua, Venezuela	
3268	91.78	2		AIR, Ranchi, India	
	91.78	1		R. Timor, Timor	
3270	91.75	4		R. Dahomey, Dahomey	
	91.75	10		Lusaka, Zambia	
3275	91.60	1	ZYR31	Bauru R. Cl, Brazil	
	91.60	0.2	HCVU2	Voz Urdaneta, Ecuador	
	91.60	1	YVMC	R. Mara, Venezuela	
3277	91.55	1	YDD	Djakarta, Indonesia	
	91.55			R. Kashmir, India	
	91.55	1		Port Vila, New Hebrides	
3280	91.40	1.3/20		Accra, Ghana	
	91.40	5		Grenada, Windward Islands	
	91.40	1	OBX1E	R. Chulucanas, Peru	
3284	91.35	10	VRH9	Suva, Fiji Isl.	
3285	91.32			Paradys, So. Africa	
	91.32	1	ZYR89	R. Aparecida, Brazil	
	91.32	1		Emis. Educ. Rural, Brazil	
	91.32	1	YVLE	R. Puerto Cabello, Venez.	
3286	91.26	1	YDG6	Madiun, Indonesia	
	91.26	5	DUB4	Philipp. Bc. Sce, Philippines	
3288	91.24	30		Tananarive, Malagasy Rep.	
3290	91.19	25	HJAB	R. Nacional, Colombia	
	91.19	0.5	OBZ4E	R. Cultura, Peru	
3295	91.05	1	CR6RF	R. Cl. Benguela, Angola	
	91.05	1	YDY	Samarinda, Indonesia	
	91.05	10/100	VUD	AIR Delhi, India	
	91.05	10/100	VUB	AIR Bombay, India	
	91.05	0.5	ZYV75	R. Educ. de Uberlandia, Braz.	
	91.05	1	YVOG	R. Trujillo, Venezuela	
3297	91.00	0.05		R. Nickerie, Surinam	
3300	90.91	0.25		Em. Reg. do Norte, Mozam.	
	90.91	5/100		R. Cl. de Mozambique	
	90.91	5		Belize, Honduras (Br.)	
	90.91	0.5	OBX4Y	R. Junin, Peru	
3304	90.80	10	VL8BD	R. Daru, New Guinea	
3305	90.77	7.5		Benghazi, Libya	
	90.77	0.25/10	VUC	AIR Calcutta, India	
	90.77	0.3	YDM2	Bukittinggi, Indonesia	
	90.77	1	DZCA	NCDAF, Philippines	
	90.77	1	ZYH31	R. Educ. do Cariri, Brazil	
	90.77	1	YVKX	La Voz de la Patria, Venez.	
3306	90.73	10		Gwelo, Rhodesia	
3315	90.50	10		AIR Bhopal, India	
	90.50	4		R. Martinique, Martinique	
	a90.50			R. Gazeta de Alagoas, Braz.	
	90.50	0.5	ZYV63	R. Itatiaia, Brazil	
	90.50	1	YVLI	R. Maracay, Venezuela	
3316	90.46	5/10		Freetown, Sierra Leone	
3320	90.34	20		Paradys, So. Africa	
	90.34	5/50		Pyongyang, Korea (Dem.R.)	
	90.34	1	OBZ4I	R. Prelatura, Peru	
3325	90.23		YDZ7	Palankaraya, Indonesia	
	90.23	1		Biak, Indonesia	
	90.23	7.5	HISD	R. Santo Domingo, Dom.Rep.	
	90.23	1	ZYJ21	R. Borborema, Brazil	
	90.23	0.1	ZYR220	R.dif. Guarulhos, Brazil	
	90.23	0.5	OAX3P	R. Tingo Maria, Peru	
	90.23	1	YVRA	R. Monagas, Venezuela	
3326	90.20	7.5		Kaduna (NBC), Nigeria	
**3330	90.09	3	CHU	Dominion Observatory, Can.	
	90.09	1	OAX1M	R. Progreso, Peru	
3331	90.06	4		Dzaoudzi, Comores Isl.	
3335	89.95	1		Sorong, Indonesia	
	89.95	10	VL9CD	R. Wewak, Papua	
	89.95	10	BED20	Taipei (BCC), Taiwan	
	89.95	0.5	ZYR59	R. Pres. Prudente, Brazil	
	89.95	1	ZYE21	R. Marajoara, Brazil	
	89.95	1	YVQC	Ecos del Orinoco, Venezuela	
3336	89.95	4		Ziguinchor, Senegal	
3339	89.85	10		R. Tanzania (Zanzibar)	
3340	89.81	5/8		Kampala, Uganda	
	89.81	1	CP99	R. Viloco, Bolivia	
	89.81	0.3	HCJT1	R. Tulcan, Ecuador	
3345	89.68	2		R. Kashmir, India	
	89.68	5	YDW2	Pontianak, Indonesia	
	89.68	2	DZB2	Call of Orient, Philipp.	
	89.68	1	HIAS	Onda Musical, Domin. Rep.	
	89.68	1		R. Alvorada, Brazil	
	89.68	1	YVPE	R. Central, Venezuela	

kc	m	kW	Call	Stations & countries	Rem.
3346	89.68	20		Lusaka, Zambia	
3350	89.55	1.3/20		Accra, Ghana	
	89.55	1	OAX5J	R. Independencia, Peru	
3355	89.42	7.5		AIR Kurseong, India	
	89.42	10		AIR Hyderabad, India	
	89.42	1	YDL20	Sumenep, Indonesia	
	89.42	4		R. Noumea, New Caledonia	
	89.42	0.25	HIBD	Voz Romana, Dom. Rep.	
	89.42	0.2	HCDR4	R. Miramar, Ecuador	
	89.42	1	OAX3Q	R. Ondas de Huallaga, Peru	
	89.42	1	YVLC	R. Valencia, Venezuela	
3356	89.40	2	ZND	Gaberones, Bechuanaland	
3360	89.29	0.2	TGVN	Voz Nahualá, Guatemala	
	89.29	0.5	OAX3D	R. Huánuco, Peru	
3365	89.15	0.5		Sukarnopura, Indonesia	
	89.15	10/100	VUD	AIR Delhi, India	
	89.15	0.15	TGZB	R. Club, Guatemala	
	89.15	0.5	ZYS44	R. Dif. do Parana, Brazil	
	89.15	1	YVPM	R. Tovar, Venezuela	
3366	89.12	20		Accra, Ghana	
3370	89.02	10		Blantyre, Malawi	
	89.02	4		R. Université, Malagasy Rep.	
3372	88.96	20		Ulgei, Mongolia	
	88.96	0.25	HCDY4	R. Iris, Ecuador	
3375	88.89	10		AIR Gauhati, India	
	88.89	1	YDK7	Djambi, Indonesia	
	88.89	10	CR6RZ	R. Angola, Angola	
	88.89	1	HIAD	R. San Juan, Dom. Rep.	
	88.89	10	ZYK28	R. Olinda Pernambuco, Braz.	
	88.89	0.5	YVMI	La Voz de la Fé, Venezuela	
3376	88.86	50		Conakry, Guinea	
3380	88.76	10		Ibadan (WNBS), Nigeria	
	88.76	1.5		St. Denis, Reunion	
	88.76	1	OAX1O	R. Chiclayo, Peru	
3385	88.63	50		Conakry, Guinea	
	88.63	0.3		Manokwari, Indonesia	
	88.63	10	VL9BR	R. Rabaul, New Guinea	
	88.63	1	HIDA	R. Hit Musical, Dom. Rep.	
	88.63	0.5		R. Clube Teresina, Brazil	
	88.63	1	ZYA41	R. Eldorado, Brazil	
	88.63	4		Cayenne, Fr. Guiana	
	88.63	1	YVQI	R. Barcelona, Venezuela	
3387	88.55	1	OBZ4M	R. La Voz del Valle, Peru	
3390	88.50	1	OQ2AC	R. College, Congo	
	88.50	0.2	HCOT1	R. Zaracay, Ecuador	
3395	88.37	0.25		Porto Amélia, Mozambique	
	88.37	1	YDP2	Medan, Indonesia	
	88.37	1		Sorong, Indonesia	
	88.37	0.15		Purwokerto, Indonesia	
	88.37	1	HIAZ	R. Santiago, Dom. Rep.	
	88.37	0.35	PZX4	R. Suriname, Surinam	
	a88.37			R.Dif. Goiania, Brazil	
	88.37	1		R. Tapuyo de Mossoró, Braz.	
	88.37	1	YVOJ	R. Universidad, Venezuela	
3396	88.34	20		Gwelo, Rhodesia	
	88.34	10		Kaduna (NBC), Nigeria	
3448	87.00	0.3		Purwokerto, Indonesia	
3515	85.35	0.2	HCKD5	R. Centro Gualaceo, Ecuad.	
3520	85.23	0.2	HCYC4	R. Escuelas Radiales, Ecuad.	
3610	83.10	0.25	HCHA2	R. Ondas Quevedanas, Ec.	
3615	82.99	0.4	HCGS6	R. Pillaro, Ecuador	
3640	82.41	0.5	HCMR1	R. Cayambe, Ecuador	
3695	81.12	0.5	HCIE1	R. Cotacachi, Ecuador	
3704	80.99	1	CR6RD	Nova Lisboa, Angola	
3710	80.86		OAX6O	R. Mollendo, Peru	
3740	80.21	0.75	CR6RM	Mocamedes, Angola	
3755	79.90	0.4	HCBH6	R. Latacunga, Ecuador	
3780	79.37	100		R. Iran, Iran	
3824	78.46	0.1	ZNF4V	Maseru, Basutoland	
3835	78.20	0.35	HCWN1	Voz del Triunfo, Ecuador	
3870	77.52	10		Quetta, Pakistan	
3890	77.12	0.5	OAX3G	R. Chimbote, Peru	
3900	76.92			Inner Mongolia, China	
3905	76.83	10/100	VUD	AIR Delhi, India	
	76.83	0.5		Port Vila, New Hebrides	
3910	76.73	5	HLK51	Seoul, Korea	
	76.73	10/1		Tokyo (FEN), Japan	
3915	76.64	1	YDZ2	Ternate, Indonesia	
	76.64	10		Quetta, Pakistan	
	76.64	7.5/100		BBC, Malaysia	
3925	76.43	10/100	VUD	AIR Delhi, India	
	76.43	50	JOZ	Tokyo, Japan	
	76.43	10	VLK3	Port Moresby, Australia	
3930	76.34	1	CR4AC	R. Barlavento, Cape Verde Isl	
3935	76.24	0.4	VRH12	Suva, Fiji Isl.	
3940	76.15	2.5	ZBW3	R. Hongkong	
	76.15	10		Peshawar, Pakistan	
3940	76.15	35/100		Okinawa (VOA), Ryukyu Isl.	
3945	76.05	1	YDU2	Denpassar, Indonesia	
	76.05	10	JOZ4/5	Tokyo, Japan	
	76.05	0.5	DXB3	Cotabato, Philippines	
3950	75.95	1		Lahore, Pakistan	
	75.95	0.3	HCPZ1	R. Rumichacha, Ecuador	
3952	75.90	15/100		BBC, London, Gt. Britain	
3958	75.78	0.5		Stanley, Falkland Isl.	
3960	75.76	10/100/250		R. Free Europe, Germany	
	75.76	0.5		R. Pax, Mozambique	
	75.76	10	YDL2	Padang, Indonesia	
	75.76	0.5	OAX7O	R. Madre de Dios, Peru	
3965	75.67	0.3	HCJH1	R. Turismo, Ecuador	
3970	75.57	10/100/250		R. Free Europe, Germany	
	75.57	1	CR6SG	R. Clube Huila, Angola	
3975	75.47	15/100		BBC, London, Gt. Britain	
	75.47	1	YDI6	Djember, Indonesia	
	75.47	10	YDH2	Semarang, Indonesia	
	75.47	10	YDI	Surabaja, Indonesia	
	75.47	0.6	HCSN6	R. Sira, Ecuador	
3980	75.38	100		Munich (VOA), Germany	
	75.38	15		Baku, USSR	
	75.38	10		Enugu (NBC), Nigeria	
	75.38	0.4	VRH13	Suva, Fiji Isl.	
3985	75.28	0.25	9UB92	R. Cordac, Burundi	
	75.28	5	CR6AA	R.Cl. Cabo Verde, Cape V. I.	
	75.28	50		R. Kabul, Afghanistan	
	75.28	0.15		Merauke, Indonesia	
	75.28	1	HCER5	Esc. Radiofonica Pop, Ecuad.	
3990	75.19	10/100/250		R. Free Europe, Germany	
	75.19	20/50		R. Liberty, Germany	
	75.19	50/250		Monrovia (VOA), Liberia	
	75.19	50		Baghdad, Iraq	
	75.19	1		AFNT, Taiwan	
	75.19	0.5	HCJA5	Voz del Rio Tarqui, Ecuador	
3995	75.09	10/100/250		R. Free Europe, Germany	
	75.09	15/100		R. Budapest, Hungary	
	75.09	5		R. Roma, Italy	
	75.09	10		R. Comercial de Angola, A.	
	75.09	5	VQO4	Solomon Islands	
3999	75.02	1.5		Godthåb, Greenland	
4008	74.81			Frunze, USSR	
**4025	74.50		GIC24	Hailsham, Gt. Britain	
4055	73.98			Petropavlovsk, USSR	
4070	73.73	25		Ulan-Bator, Mongolia	
4080	73.53			Semipalatinsk, USSR	
4100	71.17			Kzyl Orda, USSR	
**4265	70.34		DAM	Elmshorn, Germany	
4300	69.77	0.5		Thai Army, Thailand	
4310	69.61			Chimkent, USSR	
4355	68.89			Nukus, USSR	
4405	68.10			Khabarovsk, USSR	
4430	67.72			Novosibirsk, USSR	
**4478	67.00		VHP4	Belconnen, Australia	
**	67.00		VIX4	Sydney, Australia	
4485	66.89			Petropavlovsk, USSR	
4500	66.67	0.4		R. Shiraz, Iran	
4510	66.52			Andizhan, USSR	
4520	66.37			Khanty Manziysk, USSR	
**4525	66.25	5	DIZ	Nauen, G.D.R.	
4544	66.00			Alma-Ata, USSR	
4560	65.79			Guryev, USSR	
	65.79	0.2	VSI8	Grand Turk Islands	
4570	65.65			Petropavlovsk, USSR	
4600	65.22	5	9NB7	R. Nepal, Nepal	
4610	65.08			Khabarovsk, USSR	
4620	64.94	1		Police R., Thailand	
4640	64.66			Dushanbe, USSR	
	64.66	1	HSK24	R. Thailand, Thailand	
4665	64.30			Baku, USSR	
4684	64.05			Hanoi, Vietnam (Dem. Rep.)	
4710	63.69	1	ZYF24	R.Dif. Maranhão, Brazil	
4720	63.56	0.25/0.45	CR4AB	R.C . Mindelo, Cape Verde I.	
4725	63.49	50		Leopoldville, Congo Rep.	
4735	63.35	1.5	ZYY3	R. Brasil, Brazil	
4750	63.16	7.5	YDQ4	Makassar, Indonesia	
	63.16	0.25	HCBK2	R. El Mundo, Ecuador	
4755	63.09	0.5	HS2PN	Bangkok, Thailand	
	63.09	0.5	HRD4	R. Oriental, Honduras Rep.	
	63.09	2.5	HJIV	Reina de Colombia, Col.	
	63.09	0.2	HCLJ6	Voz de Bolivar, Ecuador	
4756	63.08	10	VRH4	Suva, Fiji Is .	
4760	63.03			Dzhambul, USSR	
	63.03	20		Paradys, So. Africa	
	63.03	10/100	VUD	AIR Delhi, India	
	63.03	1	YVKY	Emis. Vargas, Venezuela	
4762	63.00	0.25	OCX4W	R. Inca, Peru	

kc	m	kW	Call	Stations & countries	Rem.
4765	62.95	1	ZYN37	Feira de Santana, Brazil	
	62.95	1	HC2AK	R.dif. del Ecuador, Ecuador	
4770	62.89	0.5	CR6RG	R. Diamang, Angola	
	62.89	10		ELWA, Liberia	
	62.89	1		Police R, Thailand	
	62.89	1	HRLC	R. Continental, Honduras	
	62.89	0.4	HCMX4	R. Cenit, Ecuador	
	62.89	0.5	OAX2G	R. Cajamarca, Peru	
	62.89	1	YVNW	R. Bolivar, Venezuela	
4775	62.84			R. Kabul, Afghanistan	
	62.84	10		AIR Gauhati, India	
	62.84			Sibolga, Indonesia	
	62.84	5	ZYH29	R. Dragão do Mar, Brazil	
	62.84	5	ZYR81	R. Progresso, Brazil	
	62.84	1	HJKW	La Voz de Maria, Colombia	
	62.84	0.2	HCEH3	R. El Progreso, Ecuador	
4777	62.80	30		R. Gabon, Gabon	
4780	62.76	4		R. Djibouti, Fr. Somaliland	
	62.76	1	HIAS	Onda Musical, Dom. Rep.	
	62.76	1	HCMQ1	R. Atahualpa, Ecuador	
	62.76	1	YVLA	Voz de Carabobo, Venezuela	
4783	62.72	18		R. Mali, Mali	
	62.72	0.5		Bangkok, Thailand	
4785	62.70	30		R. Niger, Niger	
	62.70	10		R. Tanzania, Tanzania	
	62.70	10	VRH5	Suva, Fiji Islands	
	62.70	1	CP74	R. Indoamerica, Bolivia	
	62.70	0.5	ZYM8	R. Ribamar, Brazil	
	62.70	1	ZYY20	R. Dif. de Guaporé, Brazil	
	62.70	1	HJLW	Ecos Combeima, Colombia	
	62.70	1	OAX3V	R. Horizonte, Peru	
4790	62.63	10		R. Malaysia, Malaysia	
	62.63	1	HRST	R. Primero de Mayo, Hond.	
	62.63	0.25	HCAU2	R. Atalaya, Ecuador	
	62.63	0.4	OAX5X	R. Nazca, Peru	
	62.63	5	YVQN	Ondas Portenas, Venezuela	
4795	62.57	10		R. Comercial de Angola,, A.	
	62.57	4		R. Brazzaville, Congo	
	62.57	10		R. Tanzania, Zanzibar	
	62.57	50	XZK2	Rangoon, Burma	
	62.57	1	CP73	R. Nueva America, Bolivia	
	62.57	0.5	ZYP27	R. Copacabana, Brazil	
	62.57	2	PRI4	R. Tabajara, Brazil	
	62.57	1	HJFU	Voz del Comercio, Colombia	
	a62.57			Voz de los Caras, Ecuador	
4797	62.54	10		R. Somali, Somalia	
4800	62.50	10/100	VUD	AIR Delhi, India	
	62.50	0.25	HCSV5	R. Amazonas, Ecuador	
	62.50	0.5	OBX7C	R. Onda Azul, Peru	
	62.50	1	YVME	Ondas del Lago, Venezuela	
4804	62.45	5		Kisumu, Kenya	
4805	62.43	20	YDB2	Djakarta, Indonesia	
	62.43	5	ZYS8	R.Dif. do Amazonas, Brazil	
	62.43	0.5	HJAU	Universidad Antioquia, Col.	
4807	62.41	1		R. Clube de São Tomé	
4808	62.40	0.5	OAX3E	R. Huaraz, Peru	
4810	62.37	20		Paradys, So. Africa	
	62.37			Bangkok, Thailand	
	62.37	50		Banmethout, Vietnam	
	62.37	0.3	HCFA4	Voz de Manabi, Ecuador	
	62.37	2	YVMG	R. Popular, Venezuela	
4815	62.31	4		Ouagadougou, Upper Volta	
	62.31	1	ZYP33	Petropolis R.Dif, Brazil	
	62.31	1	ZYH27	R. Icarema Fortaleza, Brazil	
	62.31	1	HJDD	R. Valledupar, Colombia	
	62.31	1	OAX8X	R. Amazonas, Peru	
	62.31	1	OAX5U	R. La Voz, Peru	
4816	62.29			Bangkok, Thailand	
4820	62.24	10	CR6RZ	R. Angola, Angola	
	62.24	3.1		R. Gambia, Gambia	
	62.24	4		St. Denis, Reunion	
	62.24	0.25/10	VUC	AIR Calcutta, India	
	62.24			Bandjarmasin, Indonesia	
	62.24	5	HRVC	R. Evangélica, Honduras	
	62.24	0.2	XEJG	Guadalajara, Mexico	
	62.24	0.5	OAX7K	R. Puno, Peru	
	62.24	1	YVRC	Voz de Apure, Venezuela	
4824	62.19	1.3/20		Accra, Ghana	
4825	62.18			R. Ashkhabad, USSR	
	62.18	1	CP70	R. Grigota, Bolivia	
	62.18	0.5	ZYV57	R. Soc. Uberaba, Brazil	
	62.18	0.5	ZYE7	Educadora de Parnaiba, Br.	
	62.18	1	HJHC	R. Narino, Colombia	
	62.18	0.3	OAX8R	R. San José, Peru	
4828	62.16	10		Gwelo, Rhodesia	
4830	62.11	10	HSKB	R. Thailand, Thailand	
	62.11	0.5	HCJS1	Ondas del Angel, Ecuador	
4830	62.11	5	YVOA	Voz del Tachira, Venezuela	
4835	62.05	60		Erevan, USSR	
	62.05	18		R. Mali, Mali	
	62.05	5/100		R.Clube de Mozambique	
	62.05	20		R. Malaysia, Sarawak	
	62.05	0.5	ZYV56	R.Cl. Varginha, Brazil	
	62.05	1	ZYA	R.Dif. Roraima, Brazil	
	62.05	1	HJAM	R. Buenaventura, Colombia	
	62.05		HCAP4	Voz de Valle, Ecuador	
	62.05	0.5	OAZ4J	R. Sudamericana, Peru	
4839	61.99	10		R. Bukavu, Congo	
4840	61.98	1	CR6RY	Novo Redondo, Angola	
	61.98	10/100	VUB	AIR Bombay, India	
	61.98	1	HIFF	Voz del Atlantico, Dom. R.	
	61.98		YSCB	La Voz del Pacifico, El Salv.	
	61.98	1	OAX8F	R. Atlántida, Peru	
	61.98	1	YVOI	R. Valera, Venezuela	
4843	61.95	25		R. TV Congolaise, Congo	
4845	61.92	0.5	HRVJ	R. Católica S. Isidro, Hond.	
	61.92	0.5	ZYU8	R.Dif. de Teresina, Brazil	
	61.92	1	HJGF	R. Bucaramanga, Colombia	
	61.92	0.38	HCRM3	R. Cultural Machala, Ecuad.	
	61.92	1	OAX1X	Voz del Chira, Peru	
4849	61.87	2 5	PZX2	R. Suriname, Surinam	
4850	61.86	10		Forest Side, Mauritius	
	61.86			Tashkent, USSR	
	61.86	0.25	HCCV3	Ondas del Zamora, Ecuador	
	61.86	10	YVMS	R. Universo, Venezuela	
4855	61.79	5		Nairobi, Kenya	
	61.79	0.25		Nampula, Mozambique	
	61.79	10		Enugu (ENBS), Nigeria	
	61.79	10	YDK	Palembang, Indonesia	
	61.79	1	HRVA	R. Corona, Honduras	
	61.79	1	CP59	R. Cobija, Bolivia	
	61.79	1	ZYR61	R.Dif. de Taubaté, Brazil	
	61.79	1	HJFV	R. Neiva, Colombia	
	61.79	0.35	HCMA1	R. Novedades, Ecuador	
4860	61.73			R. Moscow, USSR	
	61.73	5/100		R. Clube de Mozambique	
	61.73	0.5	OCX4B	Nueva R. Callao, Peru	
	61.73	1	YVQE	R. Cumaná, Venezuela	
4865	61.66	1	CSA97	Ponta Delgada, Azores	
	61.66	5/100		R. Clube de Mozambique	
	61.66	0.25		Quelimane, Mozambique	
	61.66	10		Brunei Bc. Sce, Brunei	
	61.66	10	YDR	Ambon, Indonesia	
	61.66	2	PRC5	R.Cl. do Pará, Brazil	
	61.66	1	HCCD1	Luz de America, Ecuador	
4869	61.60	1	CR6RN	R. Clube de Angola, Angola	
4870	61.60	30		R. Dahomey, Dahomey	
	61.60	10		Colombo, Ceylon	
	61.60	0.3	HCGM7	Rio Amazonas, Ecuador	
	61.60	0.5	OCX4T	R. Cultural, Peru	
	61.60	5	YVKP	R. Tropical, Venezuela	
4872	61.58	1		Sorong, Indonesia	
4875	61.54	10	YDG3	Surakarta, Indonesia	
	61.54	1	ZYZ30	R. Jornal do Brasil, Brazil	
	61.54	1	HJBG	La Voz del Norte, Colombia	
	61.54	3	HCVE4	Voz Esmeraldas, Ecuador	
	61.54	5	OAZ4L	R. Del Pacifico, Peru	
4877	61.52	20		Saigon, Vietnam	
4880	61.48	7.5		Leopoldville, Congo	
	61.48	10		AIR Lucknow, India	
	61.48	1	HIJP	R. Comercial, Dom. Rep.	
	61.48	0.5	HRQN	Voz del Atlantico, Honduras	
	61.48		HCWE1	R. Nac. Espejo, Ecuador	
	61.48	1	OCX4E	R. Once Sesenta, Peru	
	61.48	5	YVKF	Ondas Populares, Venezuela	
4885	61.45	10		Nairobi, Kenya	
	61.45	1	CP77	R. Sararenda, Bolivia	
	61.45	5	ZYN50	R. Cultura de Pocos, Brazil	
	61.45		ZYG26	R. Pioneira de Teresina, Braz.	
	61.45	1	ZYD9	R. Acreana, Brazil	
	61.45	1	HJIW	Voz del Centro, Colombia	
	61.45	1	OAX5V	R. Villarica, Peru	
4890	61.35	30		Dakar, Senegal	
	61.35	0.5	HSVSS2	Thai Army St, Thailand	
	61.35	10	VLT/K4	Port Moresby, Australia	
	61.35	1	HRVL	R. Lux, Honduras	
	61.35	5	YVKB	R.Dif. Venezuela, Venezuela	
4892	61.32	4		Cayenne, Fr. Guiana	
4894	61.31	60		Erevan, USSR	
4895	61.29	1	CR6RO	Silva Porto, Angola	
	61.29	20		Paradys, So. Africa	
	61.29	7.5		AIR Kurseong, India	
	61.29	4		R. Martinique, Martinique	
	61.29	1	PRF6	R. Baré, Brazil	

kc	m	kW	Call	Stations & countries	Rem.
4895	61.29	1	ZYN23	R. Cultura de Bahia, Brazil	
	61.29	5	HJCH	La Voz de la Victor, Colomb.	
	61.29	0.4	OAZ41	R. Chanchamayo, Peru	
4900	61.22	10		Colombo, Ceylon	
	61.22	1	YDS	Gorontalo, Indonesia	
	61.22	10	YVNK	R. Juventud, Venezuela	
4904	61.18	20		R. Tchad, Chad	
	61.18	0.42	HCVS6	La Voz de Sasquisili, Ecuad.	
4905	61.16	1	CR6RS	Lobito, Angola	
	61.16	5	ZYZ20	R. Relogio Federal, Brazil	
	61.16	1	HJAG	Emisora Atlántico, Colomb.	
4910	61.10	18		Conakry, Guinea	
	61.10	1	YDM2	Bukittinggi, Indonesia	
	61.10	10		Peshawar, Pakistan	
	61.10	0.3	HCMJ1	R. Gran Colombia, Ecuador	
	61.10	0.5	OAX2H	R. La Hora, Peru	
	61.10	1	YVMK	R. Cabimas, Venezuela	
4911	61.08	2.5		Lusaka, Zambia	
4912	61.07	2	VTW2	Tarawa, Gilbert Islands	
4914	61.05	0.5	HRSY	Voz del Pacifico, Honduras	
4915	61.04	1.3/20		Accra, Ghana	
	61.04	1	ZYR60	Cultura de Araraquara, Br.	
	61.04	2	ZYE2	R.dif. de Macapá, Brazil	
4916	61.03	0.3	HCAH3	R. El Trebol, Ecuador	
4920	60.98	0.5	9UB94	R. Cordac, Burundi	
	60.98		VUM	AIR Madras, India	
	60.98	10	VLM4	Brisbane, Australia	
	60.98	0.2	TGRY	V. San Raymundo, Guatem.	
	60.98	1	HRPL	R. Progreso, Honduras	
	60.98	1	HROM	R. Ulua, Honduras	
	60.98	0.2	HCMP2	Voz de la Peninsular, Ecuad.	
	60.98	0.35	HCJX6	R. Cultural Rel, Ecuador	
	60.98	1	OBX7H	R. Ondas del Titicaca, Peru	
	60.98	7.5	YVKR	R. Caracas, Venezuela	
4923	60.94	5	HCRQ1	R. Quito, Ecuador	
4925	60.90	5/100		R. Clube de Mozambique	
	60.90	1	ZYL20	Emis Rio São Francisco, Br.	
	60.90	1	ZYV32	R. Industrial, Brazil	
	60.90	1	ZYA6	R. Icarema, Brazil	
4926	60.90	5	EAJ206	R. Ecuatorial, Sp. Guinea	
4930	60.85			Batumi, USSR	
	60.85	0.15	YDX2	Tdj. Pinang, Indonesia	
	60.85	1	HRVS	R. Católica, Honduras	
	60.85	10	HCCR1	Casa de la Cultura, Ecuador	
	60.85	1	YVOT	R. Junin, Venezuela	
4934	60.80	10		Nairobi, Kenya	
	60.80	0.25	OAX5Q	R. Cultural, Peru	
4935	60.80	1	CR6RE	R. Cl. de Malanje, Angola	
	60.80	1	ZYI21	R. Poti, Brazil	
	60.80	1	HJDE	R. Villavicencio, Colombia	
	60.80	1	OAX9E	R. Tropical, Peru	
4940	60.73			Kiev, USSR	
	60.73	10		R. Abidjan, Ivory Coast	
	60.73	0.25		Porto Amélia, Mozambique	
	60.73	10		AIR Gauhati, India	
	60.73	0.2	TGRH	Rel. Humanas, Guatemala	
	60.73	0.5	4VM	R. Dif. Haitienne, Haiti	
	60.73	0.5	HRVN	R. Sonora, Honduras	
	60.73	10	HCXZ1	R. Dif. Nacional, Ecuador	
	60.73	0.5	OAX6N	R. Misti, Peru	
	60.73	0.5	OAZ4R	R. San Juan, Peru	
	60.73	10	YVMO	R. Lara, Venezuela	
4944	60.71	60		Erevan, USSR	
4945	60.67	20		Paradys, So. Africa	
	60.67	10	YDA3	Bandung, Indonesia	
	60.67	0.5	DZB6	Nat. Teachers Coll, Philipp.	
	60.67	1	ZYO25	R. Capixaba, Brazil	
	60.67	0.25	ZYF22	R. Caxias do Sul, Brazil	
	60.67	1	ZYE23	R. Educ. Bragança, Brazil	
	60.67	1	HJCW	Emis. Suramerica, Colombia	
4950	60.60	4/100		Dakar, Senegal	
	60.60			R. Kashmir, India	
	60.60	20		R. Malaysia, Sarawak	
	60.60	1	HRRZ	R. Juticalpa, Honduras	
	60.60	1	HRTL	R. Tic Tac, Honduras	
	60.60	2	HCAV3	R. Ondas Lojas, Ecuador	
	60.60	0.5	OBX7I	R. Madre de Dios, Peru	
	60.60	1	YVMM	R. Coro, Venezuela	
4955	60.54	2	PRF7	R. Cultura de Campos, Brazil	
	60.54			R. Caiari, Brazil	
	60.54	50	HJCQ	R. Nacional, Colombia	
4957	60.52			Anadyr, USSR	
4958	60.51			Baku, USSR	
4960	60.48	10		R. Mogadiscio, Somali Rep.	
	60.48	10/100	VUD	AIR Delhi, India	
	60.48			Voz de la O.E.A, Dom. Rep.	
	60.48	1	HCPH5	La Voz del Chofer, Ecuador	
4960	60.48	0.5	OAX1S	R. Lambayeque, Peru	
	60.48	1	YVQA	R. Sucre, Venezuela	
4962	60.45	10/100	VUD	AIR Delhi, India	
4965	60.42			Sukhumi, USSR	
	60.42	10		Lusaka, Zambia	
	60.42	2.5	HJAF	R. Santa Fé, Colombia	
4967	60.40	1/10/50		R. Kuwait, Kuwait	
4968	60.38	10		Colombo, Ceylon	
4970	60.36	5	9WD215	Jesselton, Sabah	
	60.36	5	HCGH1	R. Tarqui, Equador	
	60.36	10	YVLK	R. Rumbos, Venezuela	
4972	60.33	30/4		R. Yaoundé, Cameroon	
	60.33	0.25		Quelimane, Mozambique	
4975	60.30	60		Blagoveshchensk, USSR	
	60.30	0.25		Nampula, Mozambique	
	60.30	1	ZYP27	R. Copacabana, Brazil	
	60.30	5/2.5	ZYV9	R. Timbira, Brazil	
	60.30	1	HJJG	R. Internacional, Colombia	
4976	60.29	5/8		Kampala, Uganda	
4980	60.25	9	OQ2AD	R. Dif. UFAC, Congo Rep.	
	60.25	10/50		Karachi, Pakistan	
	60.25	0.3	HCJC5	Ondas Azuayas, Ecuador	
	60.25	1	OBX4Z	R. Agricultura, Peru	
	60.25	1	YVOC	Ecos del Torbes, Venezuela	
4984	60.19	0.2	CR6RB	R. Ecclesia, Angola	
4985	60.18	10		R. Malaysia, Malaya	
	60.18	10	CP75	La Cruz del Sur, Bolivia	
	60.18	1.5	ZYZ25	Voz de Oeste Brazil	
	60.18	10	HJGV	R. Independencia, Colombia	
4990	60.12	20		Lagos, Nigeria	
	60.12	0.04	ZCQ3	Victoria, Seychelles	
	60.12	10		AIR Hyderabad, India	
	60.12	1	HCSJ1	R. Javier, Ecuador	
	60.12	10	YVMO	R. Barquisimeto, Venezuela	
4995	60.06	1	HRQW	R. Trópico, Honduras	
	60.06	5	ZYY2	R. Brazil Central, Brazil	
	60.06	1	OAZ4C	R. Andina, Peru	
4996	60.05			Magadan, USSR	
*5000	60.00	0.5	MSF	Teddington, Gt. Britain	
*	60.00	1	IAM	Rome, Italy	
*	60.00	0.3	IBF	Turin, Italy	
*	60.00		HBM	Neuchatél, Switzerland	
*	60.00	20	RWN	Moscow, USSR	
**	60.00	4	ZUO	Johannesburg, So. Africa	
*	60.00		BPV	Peking, China	
*	60.00	2	JJY	Tokyo, Japan	
*	60.00	2	WWVH	Puunene, Hawaii	
*	60.00	8	WWV	Lanham, USA	
**	60.00	2	LOL	Buenos Aires, Argentina	
	60.00	20		Omdurman, Sudan	
5005	59.94	1	OAX2S	R. Jaén, Peru	
5010	59.88	4/30		R. Garoua, Cameroon	
	59.88	10		FBS, Singapore	
	59.88	1		Thai TV Co, Thailand	
	59.88	0.5	HCAS4	Voz de los Caras, Ecuador	
	59.88	1	YVRW	R. Boconó, Venezuela	
5012	59.86			Sukhumi, USSR	
	59.86	20		Gwelo, Rhodesia	
5015	59.82			Vladivostok, USSR	
	59.82	1	CR6RM	Mocamedes, Angola	
	59.82	5		Grenada, Windw. Isl.	
	59.82	1	CP48	R. Universo, Bolivia	
	59.82	0.5	HCRP1	R. Católica, Ecuador	
	59.82	0.5	OAX7Z	R. Juliaca, Peru	
5017	59.80	10		Emis. da Guiné, Port. Guinea	
5020	59.76	4		R. Niger, Niger	
	59.76	10		Colombo, Ceylon	
	59.76	0.5	4VGS	R. Indépendence, Haiti	
	59.76	1	HJFW	Trans. Caldas, Colombia	
	59.76	10	YVKO	R. Nacional, Venezuela	
5024	59.71	1	CR6RH	R. Clube Huila, Angola	
5025	59.70	1	ZYV24	R. Dif. Aquidauana, Brazil	
	59.70	1		Voz Amazonia, Brazil	
	59.70	0.2	HCOB5	Ondas Azules, Ecuador	
	59.70	0.3	OAX7Q	R. Quillabamba, Peru	
5026	59.70	5/8		Kampala, Uganda	
5030	59.64	20	YDP4	Medan, Indonesia	
	59.64	0.5		Thai Army Stn, Thailand	
	59.64	1		Bangsue, Thailand	
	59.64	1	HIBB	Voz del Papagayo, Dom. Rep.	
	59.64	7.5	YVKM	R. Continente, Venezuela	
5033	59.61	1	CR6RW	R. Cl. de Cabinda, Angola	
5035	59.58	30		Bangui, Central African Rep.	
	59.58	1	HROE	Voz de las Fronteras, Hond.	
	59.58	1	ZYW22	R. Anhanguera, Brazil	
	59.58	0.5	PRI4	R. Espirito Santo, Brazil	
	59.58	1	HJIC	La Voz del Caqueta, Col.	

kc	m	kW	Call	Stations & countries	Rem.
5035	59.58	1.25	OAX6U	R. Ilo, Peru	
5037	59.56	20		R. Malaysia, Sarawak	
5040	59.52			Tbilisi, USSR	
	59.52	0.25		Bangkok, Thailand	
	59.52		ZNX20	Bridgetown, Barbados	
	59.52	1	OBZ4P	R. Reloj, Peru	
	59.52	1	YVMA	Ecos del Zulia, Venezuela	
a	59.52			R. Maturin, Venezuela	
5041	59.51	10		Emis. da Guiné, Port. Guinea	
5042	59.50	1	CR6RF	R. Clube de Benguela, Angola	
	59.50	0.5	OBX7J	R. Madre de Dios, Peru	
5044	59.48	5/50		Pyongyang, Korea (Dem. R.)	
5045	59.46	0.25	ZK5	Rarotonga, Cook Isl.	
	59.46			R. Mundial, Brazil	
	59.46	1	ZYP23	R. Imperial, Brazil	
5047	59.43	4/100		Lomé, Togo	
	59.43	7.5	YDJ	Jogjakarta, Indonesia	
5050	59.41	1	OQ2AC	R. Collège, Congo	
	59.41	20		R. Tanzania, Tanzania	
	59.41			Petropavlovsk, USSR	
	59.41	1	HJDW	La Voz de Medellin, Col.	
	59.41	1	OAX1J	R. Tumbes, Peru	
	59.41	2	YVKD	R. Cultura, Venezuela	
5052	59.38	50		R. Singapura, Singapore	
5055	59.35			Chita, USSR	
	59.35	2	ZYO21	R. Cult. Guiabá, Brazil	
	59.35	2	ZYO23	R. Vitória, Brazil	
5056	59.33	10		Addis Ababa, Ethiopia	
5058	59.31	1	OAZ4A	R. Tarma, Peru	
				5060–5950 kc	
5060	59.29	7.5		So. Arabian Br. Sce, Aden	
5065	59.23			Petrozavodsk, USSR	
	59.23	1	CR6RD	Nova Lisboa; Angola	
5067	59.21	25		R. Ulan Bator, Mongolia	
5075	59.13	10		Colombo, Ceylon	
	59.13	25	HJGC	Acción Cult. Popular, Col.	
5090	59.00			Palana, USSR	
5095	58.88	50	HJGG	Acción Cult. Popular, Col.	
5110	58.71			Khabarovsk, USSR	
5137	58.00	1	CR6RV	R. Clube do Moxico, Angola	
5250	57.25	2	HCPS5	Ondas Cañaris, Ecuador	
5260	57.03			Alma Ata, USSR	
5287	56.75	0.33		Damascus, Syria	
**5425	55.30	1	VNG	Lyndhurst, Australia	
5440	55.15	1	OAX5X	R. Huancavelica, Peru	
5455	55.00			Moscow, USSR	
5550	54.05	1		Thai Army St, Thailand	
5640	53.19	5/50		Pyongyang, Korea (Dem. R.)	
5714	52.50	0.5	OBX7F	R. Ayaviri, Peru	
5740	52.26			Erevan, USSR	
5804	51.66	25		R. Sanaa, Yemen	
**5807	51.67		GAY25	Rugby, Gt. Britain	
5808	51.64	1	OAX7L	La Voz del Altiplano, Peru	
5825	51.50			Syktyvkar, USSR	
5850	51.28	1		Police R. St, Thailand	
5872	51.03		CP71	Emis. San José, Bolivia	
5875	51.05	1	HRN	Voz de Honduras, Honduras	
5900	50.84			Moscow, USSR	
	50.84	7.5/10		Dacca, Pakistan	
a	50.84			La Voz del Norte, Ecuador	
5902	50.84	15/100		R. Budapest, Hungary	
a5905	50.80			R. Cuenca, Ecuador	
5908	50.78	0.5	OAX4P	R. Huancayo, Peru	
5915	50.72	100		Sverdlovsk, USSR	
5920	50.68			Moscow, USSR	
5920	50.62			Tashkent, USSR	
5925	50.63	50		Tashkent, USSR	
5930	50.59	100		Praha, Czechoslovakia	
	50.59			Arkhangelsk, USSR	
5932	50.57	0.5		R. Port Villa, New Hebrides	
5940	50.51	120		R. Sofia, Bulgaria	
	50.51			Magadan, USSR	
	50.51	120		Minsk, USSR	
	50.51	15		R. Cambodia, Cambodia	
				5950–6200 kc (49 metre band)	
5950	50.42	5/100		Warsaw, Poland	
	50.42	50		Moscow, USSR	
	50.42	0.3	HCCV5	Quatro Rios, Ecuador	
5954	50.39	1	TIQ	R. Casino, Costa Rica	
5955	50.39	100		Allouis, France	
	50.39	100	DMQ5	Deutsche Welle, Germany	
	50.39	20/50		R. Liberty, Germany	
	50.39	0.4		Larissa, Greece	
	50.39	100		Sverdlovsk, USSR	
	50.39	10/100	VUD	AIR Delhi, India	
	50.39	5		Pakanbaru, Indonesia	
	50.39	0.5		Bangkok, Thailand	

kc	m	kW	Call	Stations & countries	Rem.
5955	50.39	0.4	VRH6	Suva, Fiji Isl.	
	50.39	50		R. Canada, Canada	
	50.39	5	TGNA	R. Cultural, Guatemala	
	50.39	1	HRVF	R. Exitos, Honduras	
	50.39	0.5	YNRG	R. Zelaya, Nicaragua	
	50.39	0.5	CP5	R. Pio XII, Bolivia	
	50.39	50	ZYV226	R. Gazeta, Brazil	
	50.39	1	CE595	Emis. Nuevo Mundo, Chile	
	50.39	0.6	HCDF1	Voz del Norte, Ecuador	
5958	59.36	20		Katanga, Congo	
5960	50.34	10/100/250		R. Free Europe, Germany	
	50.34	100	DMQ5	Deutsche Welle, Germany	
	50.34	7.5/5		Athens, Greece	
	50.34	50		Moscow, USSR	
	50.34	100		Vladivostok, USSR	
	50.34	50/60/100		R. Roma, Italy	
	50.34	100		Trans World Radio, Monaco	
	50.34	4/100		Dakar, Senegal	
	50.34			R. Kashmir, India	
	50.34	50		R. Ulan Bator, Mongolia	
	50.34	1	BEP23	Taipei, Taiwan	
	50.34	1.5		Godthåb, Greenland	
	50.34	1	HRHR	Voz de Occidente, Hondur.	
	50.34	0.25	XEUMT	Mexico City, Mexico	
	50.34	1	HJCF	Voz de Bogotá, Colombia	
	50.34	0.75	HCTR1	R. Equinoccial, Ecuador	
5965	50.29	10/100/250		R. Free Europe, Germany	
	50.29	50		BBC London, Gt. Britain	
	50.29	100		Vladivostok, USSR	
	50.29	35/100		Tanger (VOA), Morocco	
	50.29	50/200		Delano, USA	
	50.29	0.5	YNWA	R. Mundial, Nicaragua	
	50.29	0.5	YNWW	R. Sport, Nicaragua	
	50.29	7.5	ZYU60	R. Guiaba, Brazil	
	50.29	2	OBX1J	R. Heroica, Peru	
5970	50.25			R. Berlin Int, Germ. (GDR)	
	50.25	10/100/250		R. Free Europe, Germany	
	50.25	100		Hörby, Sweden	
	50.25			Alma Ata, USSR	
	50.25	100		Tashkent, USSR	
	50.25	20		Moscow, USSR	
	50.25	4		R. Brazzaville, Congo	
	50.25	10		AIR Gauhati, India	
	50.25	3	YDO2	Bandjarmasin, Indonesia	
	50.25	1	DZCA	NCDA, Philippines	
	50.25	50		R. Canada, Canada	
	50.25	0.5	TGMZ	R. Nacional, Guatemala	
	50.25	5	HJVN	R. Horizonte, Colombia	
	50.25	10	OBX4Q	R. El Sol, Peru	
5972	50.23	1.25		Voz de Centroamerica, Hond.	
5975	50.21	15/100		BBC London, Gt. Britain	
	50.21	50/100		R. Nacional, Portugal	
	50.21	10		Gwelo, Rhodesia	
	50.21	30		Dakar, Senegal	
	50.21	10	HLK22	Seoul, Korea	
	50.21	35/100		Okinawa (VOA), Ryukyu Isl.	
	50.21	100		Honolulu (VOA), Hawaii	
	50.21	50/500		Greenville, USA	
	50.21	1	CP44	R. Nacional LAB, Bolivia	
	50.21	10	ZYT44	R. Guaruja, Brazil	
	50.21	10	CE597	Emis. Pres. Balmaceda, Chile	
	50.21	0.5	HCMH6	R. Cotopaxi, Ecuador	
5980	50.17	100	DMQ5	Deutsche Welle, Germany	
	50.17	50/100		R. Nederland, Holland	
	50.17	100		Tbilisi, USSR	
	50.17	100		Vladivostok, USSR	
	50.17	5		Freetown, Sierra Leone	
	50.17	10/100	VUD	AIR Delhi, India	
	50.17	100		Beyrouth, Lebanon	
	50.17	10		Quetta, Pakistan	
	50.17	3.5	BED30	Taipei (BCC), Taiwan	
	50.17	1.5		Godthåb, Greenland	
	50.17	1	TGAR	R. Quetzal, Guatemala	
	50.17	2	ZFY	R. Demerara, Br. Guiana	
	50.17	10	HJLY	La Voz del Rio Grande, Col.	
	50.17	0.45	HCRT6	R. Paz y Bien, Ecuador	
	50.17	3	ZPA6	R. Guiara, Paraguay	
	50.17	5	OBX4M	R. Panamericana, Peru	
5984	50.14	1		R. Buea, Cameroon	
5985	50.13	10/100/250		R. Free Europe, Germany	
	50.13	50/100		R. Nederland, Holland	
	50.13	50/60/100		R. Roma, Italy	
	50.13	25/100		Vatican Radio	
	50.13	1.5	BEC37	Taipei, Taiwan	
	50.13	10/100	VUD	AIR Delhi, India	
	50.13	10/50		Karachi, Pakistan	
	50.13			Hanoi, Vietnam (Dem. Rep.)	

kc	m	kW	Call	Stations & countries	Rem.
5985	50.13	50/200		Dixon, USA	
	50.13	7.5	4VB	Voix Revolution Duvalieriste, Haiti	
	50.13	1	LRS2	R. Splendid, Argentina	
	50.13	0.5	HCGR5	R. Mundial, Ecuador	
5990	50.08	10/100/250		R. Free Europe, Germany	
	50.08	75		BBC London, Gt. Britain	
	50.08	50/60/100		R. Roma, Italy	
	50.08	120		R. Bucharest, Rumania	
	50.08	100		Hörby, Sweden	
	50.08	100		Irkutsk, USSR	
	50.08	10/100	VUD	AIR Delhi, India	
	50.08	10		AIR Bhopal, India	
	50.08	10	YDS2	Menado, Indonesia	
	50.08	7.5		R. Singapura, Singapore	
	50.08	50		R. Canada, Canada	
	50.08	5	TGJA	R. Nuevo mundo, Guatemala	
	50.08	7.5	PRL5	R. Educação, Brazil	
5993	50.05	10		R. Coquilhatville, Congo	
5994	50.04	1		R. Martinique, Martinique	
5995	50.04	25		R. Andorra, Andorra	
	50.04	10		Blantyre, Malawi	
	50.04	35/100		Tanger (VOA), Morocco	
	50.04	100		Tripoli, Libya	
	50.04	10/100	VUD	AIR Delhi, India	
	50.04	1	BEC77	Taipei, Taiwan	
	50.04	50/250		Greenville, USA	
	50.04	1	HRP1	Eco de Honduras, Honduras	
	50.04	1	HOM5O	Circuito RPC, Panama	
	50.04	1	CP41	R. Loyola, Bolivia	
	50.04	1	HJGR	Voz del Pueblo, Colombia	
6000	50.00	1/50	OEI20	Aldrans, Austria	
	50.00	100		Kiev, USSR	
	50.00	120/240		Peking, China	
	50.00	1	TGTA	R. Sonora, Guatemala	
	50.00	7.5		R. Americas, Swan Isl.	
	50.00	5	PRK5	R. Inconfidencia, Brazil	
	50.00	1	OAX7E	R. Nac. Puno, Peru	
	50.00	5	CXA2	R. Sur, Uruguay	
	50.00	1	YVNL	R. Miranda, Venezuela	
6003	49.97	0.25		Tripolis, Greece	
6005	49.96	20/100		Berlin (RIAS), Germany	
	49.96	50/100		R. Nederland, Holland	
	49.96	5/100		Warsaw, Poland	
	49.96	20		Blagoveshchensk, USSR	
	49.96	20		Paradys, So. Africa	
	49.96	10		Zanzibar, Tanzania	
	49.96	10		Colombo, Ceylon	
	49.96	0.4	VRH7	Suva, Fiji Isl.	
	49.96	0.075	CFCX	Montreal, Canada	
6006	49.95	1	TIHBG	R. Reloj, Costa Rica	
6010	49.92	15/100		BBC London, Gt. Britain	
	49.92	50/60/100		R. Roma, Italy	
	49.92	100		Moscow, USSR	
	49.92	100	ETLF	Addis Ababa, Ethiopia	
	49.92	0.25/10	VUC	AIR Calcutta, India	
	49.92	10/100	VUD	AIR Delhi, India	
	49.92	35/100		Okinawa (VOA), Ryukyu Isl.	
	49.92	7.5/100		BBC, Malaysia	
	49.92	1	CJCX	Sydney, Canada	
	49.92	2.5	XEOI	R. Mil, Mexico	
	49.92	5	YSS	R. Nacional, El Salvador	
	49.92	0.25	CE601	Emisoras Norte, Chile	
	49.92	10	HJFK	La Voz Amiga, Colombia	
6013	49.90	3	OZX4Q	R. Victoria, Peru	
6015	49.88	10/100/250		R. Free Europe, Germany	
	49.88	100	DMQ6	Deutsche Welle, Germany	
	49.88	50		Rhodes (VOA), Greece	
	49.88	100		R. Abidjan, Ivory Coast	
	49.88	50	HLK31	Seoul, Korea	
	49.88	7.5/10		Dacca, Pakistan	
	49.88	10		Rawalpindi, Pakistan	
	49.88	50/80	WRUL	R. New York, USA	
	49.88	0.75	4VEB	R. Caraibes, Haiti	
	49.88	25	PRA8	R. Cl. de Pernambuco, Br.	
	49.88	0.5	HCEB4	R. Manta, Ecuador	
	49.88	1	ZPA10	R. Paraguay, Paraguay	
6020	49.83	10/100/250		R. Free Europe, Germany	
	49.83	10		R. Nederland, Holland	
	49.83	50		Khabarovsk, USSR	
	49.83	100		Moscow, USSR	
	49.83	50		Kiev, USSR	
	49.83	50/250		Monrovia (VOA), Liberia	
	49.83	35/100		Tanger (VOA), Morocco	
	49.83	20		Gwelo, Rhodesia	
	49.83	2.5		AIR Simla, India	
	49.83	3		Amman, Jordan	
6020	49.83	2	TGDA	La Voz de Occidente, Guat.	
	49.83	1	HRSP	R. Moderna, Honduras	
	49.83	0.25	XEUW	El Eco de Sotavento, Mexico	
6025	49.79	10/100/250		R. Free Europe, Germany	
	49.79	50/100		R. Nederland, Holland	
	49.79	50/100	CSA52	R. Nacional, Portugal	
	49.79	10	CR6RZ	R. Angola, Angola	
	49.79	0.3		Van, Turkey	
	49.79	5		R. Malaysia, Malaysia	
	49.79	0.1	HIHD	R. Oriente, Dom. Rep.	
	49.79	5	YNX	R. Equis, Nicaragua	
	49.79	10	ZYR63	R. Em. de Piratininga, Br.	
	49.79	3	ZPA1	R. Nacional, Paraguay	
6028	49.78	1	OAX8B	R. Nac. Iquitos, Peru	
6030	49.75	20		Mühlacker (SDR), Germany	
	49.75	50		Simferopol, USSR	
	49.75	4		R. Franceville, Gabon	
	49.75	1.3/20		Accra, Ghana	
	49.75	100		Tripoli, Libya	
	49.75	50		Kigali, Rwanda	
	49.75	100		Baghdad, Iraq	
	49.75	2	DZH6	Call of the Orient, Philipp.	
	49.75	0.1	CFVP	Calgary, Canada	
	49.75	50/250/500		Greenville, USA	
	49.75	50/80	WRUL	R. New York, USA	
	49.75	5	TGTQ	R. Internacional, Guatemala	
	49.75	1	CE603	R. Mineria, Chile	
6035	49.71	15/100		BBC London, Gt. Britain	
	49.71	50/100		R. Nederland, Holland	
	49.71	30		R. Monte Carlo, Monaco	
	49.71	50		Riazan, USSR	
	49.71	0.2	9Q2AB	R. Elisabethville, Congo	
	49.71	50/250		Monrovia (VOA), Liberia	
	49.71	30		R. Mauritania, Mauritania	
	49.71	50	XZK3	Rangoon, Burma	
	49.71	10	HLK53	Seoul, Korea	
	49.71	1	HRTL	R. Tic Tac, Honduras	
	49.71	10	ZYZ21	R. Globo, Brazil	
	49.71	0.5	OAX6B	R. Landa, Peru	
	49.71	1	CXA30	R. Nacional, Uruguay	
6037	49.69	2	TIFC	Faro del Caribe, Costa Rica	
6040	49.67	100		Munich (VOA), Germany	
	49.67	4/30		R. Yaounde, Cameroon	
	49.67	10/100	VUD	AIR Delhi, India	
	49.67	7.5	BED9	Taipei (BCC), Taiwan	
	49.67	0.5	TGCO	Voz del Tropico, Guatemala	
	49.67	0.5	HRDN	R. Caribe, Honduras	
	49.67	0.5	YNDN	R. City, Nicaragua	
	49.67	10	HJCB	Voz del Tólima, Colombia	
6042	49.65	0.3	OAX6A	R. Arequipa, Peru	
6045	49.63	5		Athens (FBS), Greece	
	49.63	20		Moscow, USSR	
	49.63	250		Kigali (DW), Rwanda	
	49.63	25		Ouagadougou, Upper Volta	
	49.63	100	YDF	Djakarta, Indonesia	
	49.63	0.25	XEXQOC	R. Universidad, Mexico	
	49.63	1	HOU31	Voz del Baru, Panama	
	49.63	7.5	ZYS33	R. Clube Pernambuco, Br.	
	49.63	1	CXA61	El Espectador, Uruguay	
6050	49.59			R. Berlin Int, Germ. (GDR)	
	49.59	50/250		BBC London, Gt. Britain	
	49.59	50/60/100		R. Roma, Italy	
	49.59	50		Irkutsk, USSR	
	49.59	5/100		R. Clube de Mozambique	
	49.59	10/100	VUD	AIR Delhi, India	
	49.59	0.1	4VG	R. Union Haiti,	
	49.59	1	HRLP	R. América, Honduras	
	49.59	0.5	CE605	R. Libertad, Chile	
	49.59	30	HCJB	La Voz de los Andes, Ecuad.	
	49.59	2.5	OBZ4O	R. Union, Peru	
6055	49.55	100		Praha, Czechoslovakia	
	49.55	100		Moscow, USSR	
	49.55	10/50	JOZ2	Tokyo, Japan	
	49.55	1/10/100		R. Kuwait, Kuwait	
	49.55	0.25	DYH4	Dumaguete City, Philipp.	
	49.55	50/250/500		Greenville, USA	
	49.55	10	PRB21	R. Panamericana, Brazil	
	49.55	5	HJEX	R. Pacifico, Colombia	
	49.55	1	OAX6E	R. Continental, Peru	
	49.55	5	CXA53	La Voz de Melo, Uruguay	
6057	49.53	2	OAX2A	R. Trujillo, Peru	
6058	49.52	5		Kigali, Rwanda	
6060	49.50	25		Caltanisetta, Italy	
	49.50	50		Chita, USSR	
	49.50	4		R. Niger, Niger	
	49.50	20		Lusaka, Zambia	
	49.50	10/100		R. Habana, Cuba	

kc	m	kW	Call	Stations & countries	Rem.
6060	49.50	0.5	HIAZ	R. Santiago, Dom. Rep.	
	49.50	1	TGRLA	R. Cadena Landivar, Guat.	
	49.50	1	HRU	R. Centro, Honduras	
	49.50	50	LRA31	Buenos Aires, Argentina	
	49.50	0.75	HCAC1	Voz Democracia, Ecuador	
6062	49.48	2		Bangkok, Thailand	
	49.48	1	OAX8L	R. Telestar, Peru	
6065	49.46	100		Hörby, Sweden	
	49.46	50		Kazan, USSR	
	49.46	1		Lahore, Pakistan	
	49.46	7.5/50		Malolos (VOA), Philipp.	
	49.46	1	XEXG	R. Dif. Mexico, Mexico	
	49.46	0.6		R. Universal, Nicaragua	
	49.46	10	PRL8	R. Nac. Brasília, Brazil	
	49.46	7.5	ZYZ31	R. Rural, Brazil	
	49.46	1	HCEM1	Ondas Charchenses, Ecuad.	
6070	49.42	10/100/250		R. Free Europe, Germany	
	49.42	15/100		BBC London, Gt. Britain	
	49.42	100		R. Sofia, Bulgaria	
	49.42	100		Kiev, USSR	
	49.42	50		Novosibirsk, USSR	
	49.42	100/250		Accra, Ghana	
	49.42	4		R. Université, Malagasy R.	
	49.42	4		Ziguinchor, Senegal	
	49.42	5		Sukarnopura, Indonesia	
	49.42	10/50		Karachi, Pakistan	
	49.42	10	HSK5	R. Thailand, Thailand	
	49.42	1	CFRX	Toronto, Canada	
	49.42	1.2	TGPA	R. Palmeras, Guatemala	
	49.42	1	CP18	R. El Condor, Bolivia	
	49.42	5	CE607	Soc. Nac. de Mineria, Chile	
	49.42	0.5	HCIW5	R. El Mercurio, Ecuador	
	49.42	0.3	OAX4S	Onda Popular, Peru	
6075	49.38	100	DMQ6	Deutsche Welle, Germany	
	49.38	7.5/5		Athens, Greece	
	49.38	50		Volgograd, USSR	
	49.38	10		Colombo, Ceylon	
	49.38	35/100		Okinawa (VOA), Ryukyu Isl.	
	49.38	0.25	HIDB	R. Libertad, Dom. Rep.	
	49.38	0.15	4VCP	LV du Nord, Haiti	
	49.38	5	HRMH	La Voz del Junco, Honduras	
	49.38	10	HJHV	Acción Cult.Popular, Colomb.	
	49.38	2.5	CXA3	R. Ariel, Uruguay	
6080	49.34			R. Berlin Int, Germ. (GDR)	
	49.34	10/100/250		R. Free Europe, Germany	
	49.34	15/100		BBC London, Gt. Britain	
	49.34	10	CSB51	R. Cl. Portuguese, Portugal	
	49.34	100		Schwarzenburg, Switzerland	
	49.34	50		Moscow, USSR	
	49.34	100		Alger, Algeria	
	49.34	50/100		Cairo, Un. Arab Rep.	
	49.34	20/200		R. Japan, Japan	
	49.34	7.5/100		BBC, Malaysia	
	49.34	0.25	DZI7	Voice of Manila, Philipp.	
	49.34	7.5	ZL7	Wellington, New Zealand	
	49.34	0.01	CFKX	Vancouver, Canada	
	49.34	0.5	TGSM	R. Nac. S. Marcos, Guatemala	
	49.34	1	4VHW	R. Haiti, Haiti	
	49.34		HCDG2	R. Bolivar, Ecuador	
6082	49.32	10	OAX4Z	R. Nacional Lima, Peru	
6085	49.30	10	DMR24	Munich (BR), Germany	
	49.30	50/100		R. Nederland, Holland	
	49.30	100		Kiev, USSR	
	49.30			Tallinn, USSR	
	49.30	10		R. Stanleyville, Congo	
	49.30	0.5		Izmir, Turkey	
	49.30	50/200		Dixon, USA	
	49.30	15	ZYK2	R. Jornal do Comercio, Br.	
	49.30	1	HJDX	Ecos de Pasto, Colombia	
	49.30	1	HCSP4	Voz del Volante, Ecuador	
6088	49.28	0.35	OAX7T	R. Sicuani, Peru	
6090	49.26	50		R. Luxembourg, Luxemb.	
	49.26	50		Khabarovsk, USSR	
	49.26	50		Simferopol, USSR	
	49.26	10	ELBC	Liberian Bc. Corp, Liberia	
	49.26	50/250		Monrovia (VOA), Liberia	
	49.26	10		R. Kaduna, Nigeria	
	49.26	3	BEC26	Taipei, Taiwan	
	49.26	2	VLI6	Sydney, Australia	
	49.26	7.5	HISD	R. Sto. Domingo, Dom. Rep.	
	49.26	2	TGDZ	R. Centroamericana, Guat.	
	49.26	1	HRNQ	R. Morazán, Honduras	
	49.26	1	XECMT	R. Mante, Mexico	
	49.26	40	LRY1	R. Belgrano, Argentina	
6095	49.22	10/100/250		R. Free Europe, Germany	
	49.22	20/50		R. Liberty, Germany	
	49.22	35		Thessaloniki, Greece	
6095	49.22	100		Hörby, Sweden	
	49.22	20		Paradys, So. Africa	
	49.22	100		Baghdad, Iraq	
	49.22	25	ZYB7	R. Dif. de São Paulo, Brazil	
	49.22	1	HJDP	R. Colosal, Colombia	
6096	49.20	1	HSK5	R. Thailand, Thailand	
6100	49.18	100	DMQ6	Deutsche Welle, Germany	
	49.18	100		R. Belgrade, Yugoslavia	
	49.18	50		Kursk, USSR	
	49.18	7.5		AIR Kurseong, India	
	49.18	100		R. Malaysia, Malaysia	
	49.18	0.25		Bangkok, Thailand	
	49.18	0.25	4VO	R. Lumière, Haiti	
	49.18	0.5	YNHC	R. Her. Cordoba, Nicaragua	
	49.18	1	CE610	R. Calama, Chile	
6105	49.14	10/100/250		R. Free Europe, Germany	
	49.14	7.5	BEC61	Air Forces St, Taiwan	
	49.14	0.25	XEQM	Merida, Mexico	
	49.14	5	ZYN6	Ceará R. Clube, Brazil	
	49.14	5	HJNV	R. Visión, Colombia	
	49.14	1	OAX6F	R. Nac. Tacna, Peru	
6110	49.10	75		BBC London, Gt. Britain	
	49.10	50		Baku, USSR	
	49.10	100/250		Accra, Ghana	
	49.10			R. Kashmir, India	
	49.10	7.5/100		BBC Malaysia	
	49.10	1	HIZ	Broadc. Nac Dom. Rep.	
	49.10	1	TGQA	R. Nacional, Guatemala	
	49.10	1	HRXV	R. Comayagüela, Honduras	
	49.10	5	CE611	Soc. Nac. de Agric, Chile	
	49.10	1	ZPA11	R. Charitas, Paraguay	
	49.10	10	YVPN	Esc. Radiofonicas, Venez.	
6115	49.06	20		R. Berlin Int, Germ. (GDR)	
	49.06	50		Khabarovsk, USSR	
	49.06	50		Riga, USSR	
	49.06	1		R. Douala, Cameroon	
	49.06	5/100		R. Clube de Mozambique	
	49.06	35/100		Tanger (VOA), Morocco	
	49.06	1	XEUDS	R. Univ. de Sonora, Mexico	
	49.06	100	ZYC7	R. Tupi, Brazil	
	49.06	1	HCIQ	La Voz del Llano, Colombia	
	49.06	1	OBX4Z	R. Luz, Peru	
	49.06	0.3	OAX4H	R. Mundial, Peru	
	49.06	1	CXA73	R. Clarin, Uruguay	
6116	49.06	5		Dalat, Vietnam	
6120	49.02	15	OIX7	Pori, Finland	
	49.02	100	DMQ6	Deutsche Welle, Germany	
	49.02	10/100/250		R. Free Europe, Germany	
	49.02	15/100		BBC London, Gt. Britain	
	49.02	100		Schwarzenburg, Switzerland	
	49.02	50		Sverdlovsk, USSR	
	49.02			BBC, Cyprus	
	49.02	10		AIR Hyderabad, India	
	49.02	50	DZF4	Call of the Orient, Philipp.	
	49.02	2.5	4VE	R. St. 4VEH, Haiti	
	49.02	0.5	XETS	R. XETS, Mexico	
	49.02	0.5	YNCA	R. Atlantico, Nicaragua	
	49.02	10	LRX1	R. El Mundo, Argentina	
6125	48.98	10/100/250		R. Free Europe, Germany	
	48.98	15/100		BBC London, Gt. Britain	
	48.98	10		Kaunas, USSR	
	48.98	3/10		R. Kasai, Congo Rep.	
	48.98	10		Peshawar, Pakistan	
	48.98	35/100		Poro (VOA), Philipp.	
	48.98	50/250/500		Greenville, USA	
	48.98	1	CP15	El Condor, La Paz, Bolivia	
	48.98	7.5	PRG9	R. Nac. de S. Paulo, Brazil	
	48.98	1	HJKE	R. Continental, Colombia	
	48.98	10	CXA4	S.O.D.R.E, Uruguay	
6130	48.94	10/100/250		R. Free Europe, Germany	
	48.94	0.2/100	LKJ	R. Norway, Norway	
	48.94	100		R. Nacional, Spain	
	48.94	50		Kalatch, USSR	
	48.94	100/250		Accra, Ghana	
	48.94	10		Colombo, Ceylon	
	48.94	10		AIR Gauhati, India	
	48.94	1		Vientiane, Laos	
	48.94	0.5	CHNX	Halifax, Canada	
	48.94	1.5	YNP	R. Circuito, Nicaragua	
	48.94	1.5	HCFB2	R. Condor, Ecuador	
	48.94	1	YVTE	R. Valles del Tuy, Venezuela	
6135	48.90	100		Praha, Czechoslovakia	
	48.90	5/100		Warsaw, Poland	
	48.90	50		Krasnoyarsk, USSR	
	48.90	1	CR6RU	Carmona, Angola	
	48.90	4		Tananarive, Malagasy Rep.	
	48.90	120/240		Peking, China	

kc	m	kW	Call	Stations & countries	Rem.
6135	48.90	10		R. Malaysia, Malaysia	
	48.90	25		R. Ulan Bator, Mongolia	
	48.90	4		Papéete, Tahiti	
	48.90	10/100		R. Habana, Cuba	
	48.90	1	HRME	R. El Patio, Honduras	
	48.90	1	CP30	R. Sta. Cruz, Bolivia	
	48.90	7.5	PRC21	R. TV Gaucha, Brazil	
	48.90	10	CE613	Concepción, Chile	
	48.90	0.5	OCX4M	R. Pasco, Peru	
6140	48.86	10/100/250		R. Free Europe, Germany	
	48.86	15/100		R. Budapest, Hungary	
	48.86	100		R. Nacional, Spain	
	48.86	1		R. Tripoli, Libya	
	48.86	10/100	VUD	AIR Delhi, India	
	48.86	20/200		R. Japan, Japan	
	48.86	10	VLW6	Perth, Australia	
	48.86	1	TGHC	R. Universal, Guatemala	
	48.86	0.25	XERUU	R. Univ. Chihuahua, Mexico	
	48.86	1	HJNE	R. El Sol, Colombia	
	48.86	0.3	OAX1A	R. Delcar, Peru	
	48.86	10	CXA20	R. Monte Carlo, Uruguay	
6145	48.82	100		Allouis, France	
	48.82	100	DMQ6	Deutsche Welle, Germany	
	48.82	100		Moscow, USSR	
	48.82	2.5/5		Enugu (NBC), Nigeria	
	48.82	50/200		Dixon, USA	
	48.82	1	HRXE	R. Mil Treinta, Honduras	
	48.82	50	PRL9	R. Nacional Rio, Brazil	
	48.82	1	HJEQ	Voz del Cauca, Colombia	
	48.82	0.5	OAZ4E	R. Minera, Peru	
6150	48.78	15/100		BBC London, Gt. Britain	
	48.78	120		R. Bucharest, Rumania	
	48.78			Erevan, USSR	
	48.78	10		R. Belgrade, Yugoslavia	
	48.78	1	CR6RF	R. Clube Benguela, Angola	
	48.78	20		Paradys, So. Africa	
	48.78	10/100	VUD	AIR Delhi, India	
	48.78	10	VLR6	Melbourne, Australia	
	48.78	0.5	TGAZ	R. Continental, Guatemala	
	48.78	1	YNMV	R. Continental, Nicaragua	
	48.78	5	CE615	La Voz de Chile, Chile	
	48.78	0.3	HCEM4	R. Costa Azul, Ecuador	
	48.78	2	OBX4G	R. Excelsior, Peru	
6155	48.74	1/50	OEI21	Vienna, Austria	
	48.74	10	CSB52	R. Renascenca, Portugal	
	48.74	50		Lvov, USSR	
	48.74	18		Conakry, Guinea	
	48.74	5		R. Tabriz, Iran	
	48.74	50		Baghdad, Iraq	
	48.74	10		Tokyo (FEN), Japan	
	48.74	7.5		R. Singapura, Singapore	
	48.74	0.25	4VWA	R. Citadelle, Haiti	
	48.74	1	CP12	R. Fides, Bolivia	
	48.74	10	CXA12	R. Carve, Uruguay	
6160	48.70			R. Berlin Int, Germ. (GDR)	
	48.70	10/100/250		R. Free Europe, Germany	
	48.70	1	HSK4	R. Thailand, Thailand	
	48.70	0.5	CKZU	Vancouver, Canada	
	48.70	0.5	CKNX	St. John's, Canada	
	48.70	0.25	TGZA	R. Club, Guatemala	
	48.70	10	HJKJ	Nueva Granada, Colombia	
	48.70	1	OCX4G	R. Mundo, Peru	
6165	48.66	15/100		BBC London, Gt. Britain	
	48.66	250		Schwarzenburg, Switzerland	
	48.66	100		Kiev, USSR	
	48.66	15		Vladivostok, USSR	
	48.66	30		R. Tchad, Chad	
	48.66	50/250		Monrovia (VOA), Liberia	
	48.66	20		Lusaka, Zambia	
	48.66	20		Damascus, Syria	
	48.66	20		Saigon, Vietnam	
	48.66	1	HRTV	R. Televisión, Honduras	
	48.66	10	XEWW	Voz America Latina, Mexico	
	48.66	7.5	ZYR58	R.Dif. São Paulo, Brazil	
6170	48.62	20/50		R. Liberty, Germany	
	48.62	15/100		BBC London, Gt. Britain	
	48.62	15		Novosibirsk, USSR	
	48.62	4		Tananarive, Malagasy Rep.	
	48.62	10		AIR Lucknow, India	
	48.62	10		Padang, Indonesia	
	48.62	10	DUH2	Philipp. Bc. Sce, Philipp.	
	48.62	4		R. Cayenne, Fr. Guiana	
	48.62	50/260		TWR Bonaire, Neth. Ant.	
	48.62		CE617	R.. Universidad, Chile	
	48.62	1	HCPJ2	R Fluminense, Ecuador	
	48.62	0.3	OBX4B	R. Corporación, Peru	
	48.62	1	CXA21	R. Fenix, Uruguay	

kc	m	kW	Call	Stations & countries	Rem.
6170	48.62	10	YVKG	R. Nacional, Venezuela	
6175	48.58	100		Allouis, France	
	48.58	100	DMQ6	Deutsche Welle, Germany	
	48.58	7.5/5		Athens, Greece	
	48.58	120		Kazan, USSR	
	48.58	50		Alger, Algeria	
	48.58	20		Kaduna (NBC), Nigeria	
	48.58	100		R. Malaysia, Malaysia	
	48.58	50/260		TWR Bonaire, Neth. Ant.	
	48.58	10	ZYV74	R. Guarani, Brazil	
6180	48.54	100	ORU4	Wavre, Belgium	
	48.54	15/100		BBC London, Gt. Britain	
	48.54			Alma Ata, USSR	
	48.54	50		Khabarovsk, USSR	
	48.54	50		Minsk, USSR	
	48.54	5/100		R.Cl. de Mozambique	
	48.54	1	TGWB	Voz de Guatemala, Guatem.	
	48.54	10	LRA34	R. Nac. Mendoza, Argentina	
	48.54	50	HJWT	R. Nacional, Colombia	
	48.54	1	OBX4P	R. Miraflores, Peru	
6185	48.50	10/100/250		R. Free Europe, Germany	
	48.50	100	DMQ6	Deutsche Welle, Germany	
	48.50	10	LLI	R. Norway, Norway	
	48.50	10/100	CSA29	R. Nacional, Portugal	
	48.50	50		Riazan, USSR	
	48.50	100		Addis Ababa, Ethiopia	
	48.50	10		Ibadan (WNBS), Nigeria	
	48.50	10		Colombo, Ceylon	
	48.50	10/100	VUD	AIR Delhi, India	
	48.50	35/100		Poro (VOA), Philipp.	
	48.50	50/200		Delano, USA	
	48.50	0.5	HRMT	R. Molino Rojo, Honduras	
	48.50	1	XEICM	La Voz del Maestro, Mex.	
	48.50	10	ZYR77	R. Bandeirantes, Brazil	
	48.50	30	HCJB	La Voz de los Andes, Ecuad.	
6190	48.47	10		R. Bremen, Germany	
	48.47	120		R. Bucharest, Rumania	
	48.47	100		Khabarovsk, USSR	
	48.47	25/100		Vatican Radio	
	48.47	50		Sebaa-Aioun, Morocco	
	48.47	10/100	VUD	AIR Delhi, India	
	48.47	110		Bethany, USA	
	48.47	0.1	HIAU	Broadc. Tropical, Dom. R.	
	48.47	0.5	TGFP	Flores Peten, Guatemala	
	48.47	0.25	YNUW	R. Darío, Nicaragua	
	48.47	10	CE619	R. Corporación, Chile	
	48.47	0.4	OAX4G	R. Lima, Peru	
6195	48.43	50/100		BBC London, Gt. Britain	
	48.43	50		Baku, USSR	
	48.43	100		Khabarovsk, USSR	
	48.43	10	CR6RZ	R. Angola, Angola	
	48.43	10		R. Burundi, Burundi	
	48.43	50		R. Tunis, Tunis	
	48.43	1	HRD2	Voz Atlántida, Honduras	
	48.43	10	PRD21	Emis. Continental, Brazil	
	48.43	1	HJEZ	Voz de Cali, Colombia	
	48.43	1.5	HCEH6	R. Cosmopolita, Ecuador	
6198	48.40	0.25	OAX1B	R. Piura, Peru	
6200	48.39	50		Lvov, USSR	
	48.39	0.75	YNJJ	R. Norte, Nicaragua	
6205	48.35	1	TIJCD	R. Atenas, Costa Rica	
				6210–7100 kc	
6210a	48.31			R. Tabriz, Iran	
6215	48.27	1	TIGPH	R. Monumental, Costa Rica	
	48.27	0.3	OAX7C	R. Tahuantisuyo, Peru	
6220	48.23	1	OAX7A	R. Cuzco, Peru	
6234	48.10	15/100		R. Budapest, Hungary	
6235	48.10	10/50		Karachi, Pakistan	
	48.10	1	TIRHB2	R. Popular, Costa Rica	
	48.10	0.5	HCNK3	R. Cariamanga, Ecuador	
	48.10	1	OAX6U	R. Universidad, Peru	
6245	48.04	50		R. Sofia, Bulgaria	
	48.04	10/50		Karachi, Pakistan	
6250	48.00	5	EAJ206	R. Emis. S. Isabel, Sp. Guinea	
	48.00	5/50		Pyongyang, Korea (Dem. R.)	
	48.00	0.75	HCVC3	R. Centinela del Sur, Ecuador	
	a48.00			R. Cuzco, Peru	
6255	47.96	1	CP9	R. Amauta, Bolivia	
a6262	47.90			R. Mundial, Ecuador	
6405	46.84	0.25		Bangkok, Thailand	
**6475	46.33		DAM	Elmshorn, Germany	
6520	46.00	0.4		R. Gorgan, Iran	
6540	45.87	5/50		Pyongyang, Korea (Dem. R.)	
6600	45.45	5/50		Pyongyang, Korea (Dem. R.)	
6660	45.04	0.2		R. Kukësi, Albania	
6730	44.58	5/50		Pyongyang, Korea (Dem. R.)	
6770	44.31			Alma Ata, USSR	

kc	m	kW	Call	Stations & countries	Rem.
6818	44.01	0.4		R. Sanandaj, Iran	
6825	43.96			Tashkent, USSR	
6850	43.80	0.35		Pathfinders St, Poland	
6870	43.64			Alma Ata, USSR	
6940	43.20	0.5		R. Rezaieh, Iran	
6980	42.98	1	YDX3	Tdj. Pinang, Indonesia	
**6985	42.95		GIC26	Hailsham, Gt. Britain	
	42.95	0.5		Laksi, Thailand	
7010	42.80	10/50		Karachi, Pakistan	
7018	42.74	0.5		Istanbul, Turkey	
7045	42.58	5	ZYP	R. Imperial, Brazil	
7050	42.55	50/100		Cairo, Un. Arab. Rep.	
	42.55	1		Pakanbaru, Indonesia	
	42.49	10/50		Karachi, Pakistan	
7075	42.40	50/100		Cairo, Un. Arab. Rep.	
7085	42.34	100		Jeddah, Saudi Arabia	
7090	42.30	50		R. Tirana, Albania	
				7100–7300 kc (41 m.b.)	
7100	42.25	50		Kaunas, USSR	
	42.25	0.25	TAO6	Izmir, Turkey	
	42.25	1.6		Istanbul, Turkey	
7105	42.22	10/100/250		R. Free Europe, Germany	
	42.22	15/100		R. Budapest, Hungary	
	42.22	100		R. Nacional, Spain	
	42.22	4		R. Brazzaville, Congo	
	42.22	30		Tananarive, Malagasy Rep.	
	42.22	10/100	VUD	AIR Delhi, India	
	42.22	7.5	YDJ2	Jogjakarta, Indonesia	
	42.22	5		R. Nepal, Nepal	
	42.22	1		Thai TV Co, Thailand	
7110	42.19	75		BBC London, Gt. Britain	
	42.19	50/100		R. Nederland, Holland	
	42.19			Erevan, USSR	
	42.19	50		Omsk, USSR	
	42.19	5/8		Kampala, Uganda	
	42.19	35		Colombo (VOA), Ceylon	
	42.19	50		R. Malaysia, Malaysia	
	42.19	10		Quetta, Pakistan	
	42.19	7.5/100		BBC, Malaysia	
	42.19	1	BED77	Taipei (BCC), Taiwan	
7115	42.16	100		Praha, Czechoslovakia	
	42.16	10/100/250		R. Free Europe, Germany	
	42.16	50		Baku, USSR	
	42.16	0.5	CR6RE	R.Cl. de Malanje, Angola	
	42.16	10		Sebaa-Aioun, Morocco	
	42.16	0.25		Porto-Amélia, Mozambique	
7120	42.13	75		BBC London, Gt. Britain	
	42.13	15/100		R. Budapest, Hungary	
	42.13	50		Tula, USSR	
	42.13	50		R. Mogadiscio, Somali Rep.	
	42.13	50	XZK4	Rangoon, Burma	
	42.13	10/100	VUB	AIR Bombay, India	
	42.13	7.5/100		BBC, Malaysia	
7125	42.11	100	DMQ7	Deutsche Welle, Germany	
	42.11	5/100		Warsaw, Poland	
	42.11	50		Erevan, USSR	
	42.11	1	CR6RD	Nova Lisboa, Angola	
	42.11	18		Conakry, Guinea	
	42.11	5		Nairobi, Kenya	
	42.11	10/100	VUD	AIR Delhi, India	
	42.11	100		R. Iran, Iran	
7130	42.08	15/100		BBC London, Gt. Britain	
	42.08	50		Rhodes (VOA), Greece	
	42.08	50/100	CSA55	R. Nacional, Portugal	
	42.08	50		Minsk, USSR	
	42.08	50		Erevan, USSR	
	42.08	10/50		Karachi, Pakistan	
	42.08	10		Peshawar, Pakistan	
	42.08	50	BED7	Taipei (BCC), Taiwan	
7135	42.05	15/100		BBC London, Gt. Britain	
	42.05	30		R. Monte Carlo, Monaco	
	42.05	50/250		Monrovia (VOA), Liberia	
	42.05	4		R. Niger, Niger	
	42.05	10/100	VUD	AIR Delhi, India	
	42.05	100		R. Iran, Iran	
	42.05	35/100		Poro (VOA), Philippines	
	42.05	35/100		Okinawa (VOA), Ryukyu Isl.	
	42.05	0.25		Bangkok, Thailand	
	42.05	7.5/100		BBC, Malaysia	
7140	42.02	10/100/250		R. Free Europe, Germany	
	42.02	75		BBC London, Gt. Britain	
	42.02	7.5/5		Athens, Greece	
	42.02	50		Riga, USSR	
	42.02	0.25	CR6RA	R.Clube de Angola, Angola	
	42.02	0.25		Quelimane, Mozambique	
	42.02	50/100		Cairo, Un. Arab. Rep.	
	42.02			BBC, Cyprus	

kc	m	kW	Call	Stations & countries	Rem.
7140	42.02	10		AIR Hyderabad, India	
	42.02	1	YDR2	Ambon, Indonesia	
7143	42.01	1.6	TAO5	Istanbul, Turkey	
7145	41.99	10/100/250		R. Free Europe, Germany	
	41.99	5/100		Warsaw, Poland	
	41.99	20		Novosibirsk, USSR	
	41.99	18		R. Mali, Mali	
	41.99	50		Malolos (VOA), Philippines	
7150	41.96	100	DMQ7	Deutsche Welle, Germany	
	41.96	15/100		BBC London, Gt. Britain	
	41.96	50		Serpukhov, USSR	
	41.96	5		Nairobi, Kenya	
	41.96	15		Male Sinico R, Maldive Isl.	
	41.96	7.5/100		BBC, Malaysia	
	41.96	3	BED35	Taipei (BCC), Taiwan	
7155	41.92	10/100/250		R. Free Europe, Germany	
	41.92	20/50		R. Liberty, Germany	
	41.92	15/100		BBC London, Gt. Britain	
	41.92	0.25		Joannina, Greece	
	41.92	10		R. Comercial de Angola	
	41.92	30		Tananarive, Malagasy Rep.	
	41.92	100		Amman, Jordan	
7160	41.90	100		Allouis, France	
	41.90	50		Lvov, USSR	
	41.90	0.25		Quelimane, Mozambique	
	41.90	10	VUM	AIR Madras, India	
	41.90	1	DUH9	R. University, Philippines	
	41.90	20		R. Malaysia, Sarawak	
	41.90	0.25		Thai Air Force, Thailand	
7161	41.90	1		Serrae, Greece	
7165	41.87	10/100/250		R. Free Europe, Germany	
	41.87	50/100		R. Nederland, Holland	
	41.87		YDV	Kupang, Indonesia	
	41.87	20		R. Tanzania, Tanzania	
7170	41.84	50		Tashkent, USSR	
	41.84	50		Vladivostok, USSR	
	41.84	35/100		Leopoldville, Congo	
	41.84	35/100		Tanger (VOA), Morocco	
	41.84	7.5		R. Singapura, Singapore	
	41.84	4		Noumea, New Caledonia	
7175	41.81	10/100/250		R. Free Europe, Germany	
	41.81	100	DMQ7	Deutsche Welle, Germany	
	41.81	5		Caltanisetta, Italy	
	41.81	250		Starobelsk, USSR	
	41.81	1	CR6RS	Lobito, Angola	
	41.81	25		R. Dif. TV Congolaise, Congo	
	41.81	2.5		Gwelo, Rhodesia	
	41.81	35/100		Poro (VOA), Philippines	
	41.81	35/100		Okinawa (VOA), Ryukyu Isl.	
7180	41.78	10/100/250		R. Free Europe, Germany	
	41.78	50		Riazan, USSR	
	41.78	100		Baghdad, Iraq	
	41.78	0.5	BEG20	Taipei, Taiwan	
7185	41.75			R.Berlin Int, Germany (GDR)	
	41.75	75		BBC London, Gt. Britain	
	41.75	50		Erevan, USSR	
	41.75	50		Sverdlovsk, USSR	
	41.75	20		Paradys, So. Africa	
	41.75	5	HSK7	R. Thailand, Thailand	
7189	41.73	20	4XB49	Tel Aviv, Israel	
7190	41.72	10/100/250		R. Free Europe, Germany	
	41.72	15		Tashkent, USSR	
	41.72	0.25		Em. Reg. do Norte, Mozamb.	
	41.72	10		Colombo, Ceylon	
	41.72	10		Sukarnopura, Indonesia	
	41.72	1	HLK30	Seoul, Korea	
	41.72	10/50/100		R. Australia, Australia	
7195	41.70	10/100/250		R. Free Europe, Germany	
	41.70	120		R. Bucharest, Rumania	
	41.70	50		Tula, USSR	
	41.70	50/250		Monrovia (VOA), Liberia	
	41.70	5/8		Kampala, Uganda	
	41.70	15/120		Peking, China	
	41.70	10/100	VUD	AIR Delhi, India	
	41.70	20/200		R. Japan, Japan	
7200	41.67	15/100		BBC London, Gt. Britain	
	41.67			Erevan, USSR	
	41.67	15		Moscow, USSR	
	41.67	50		Vladivostok, USSR	
	41.67	10		R. Belgrade, Yugoslavia	
	41.67	1	OQ2AC	R. Collège, Congo	
	41.67	0.35	OQ2AB	R. Elisabethville, Congo	
	41.67	50		R. Kabul, Afghanistan	
	41.67	1	BEC76	Taipei, Taiwan	
7205	41.64	100	DMQ7	Deutsche Welle, Germany	
	41.64	10/100/250		R. Free Europe, Germany	
	41.64	35		Thessaloniki (VOA), Greece	

kc	m	kW	Call	Stations & countries	Rem.
7205	41.64	100		Moscow, USSR	
	41.64	5	CR7RB	R. Pax, Mozambique	
7210	41.61	10/100/250		R. Free Europe, Germany	
	41.61	75		BBC London, Gt. Britain	
	41.61	50/100		R. Nederland, Holland	
	41.61	10		Tromsö, Norway	
	41.61	0.4		Ukesenderen, Norway	
	41.61	25/100		Schwarzenburg, Switzerland	
	41.61	100		Moscow, USSR	
	41.61	50		Vladivostok, USSR	
	41.61	10		Nairobi, Kenya	
	41.61	0.25/10	VUC	AIR Calcutta, India	
	41.61	10/100	VUD	AIR Delhi, India	
	41.61	10	YDH3	Semarang, Indonesia	
7215	41.58	100		Allouis, France	
	41.58	20/50		R. Liberty, Germany	
	41.58	0.5		Kozani (FBS), Greece	
	41.58	50/60/100		R. Roma, Italy	
	41.58	50/100		Cairo, Un. Arab. Rep.	
	41.58	1		R. Abidjan, Ivory Coast	
	41.58	1		AFNT, Taiwan	
7220	41.55	75		BBC London, Gt. Britain	
	41.55	100	DMQ7	Deutsche Welle, Germany	
	41.55	20/50		R. Liberty, Germany	
	41.55	15/100		R. Budapest, Hungary	
	41.55	100		Schwarzenburg, Switzerland	
	41.55	50		Vladivostok, USSR	
	41.55	30		Bangui, C. African Rep.	
	41.55	20		Omdurman, Sudan	
	41.55	50		Riyadh, Saudi Arabia	
	41.55	10/50/100		R. Australia, Australia	
7225	41.52	10/100/250		R. Free Europe, Germany	
	41.52	50/100		R. Nacional, Portugal	
	41.52	120		Bucharest, Rumania	
	41.52	10		Sebaa Aioun, Morocco	
	41.52			Szechuan, China	
	41.52	10/100	VUD	AIR Delhi, India	
	41.52	1		Lahore, Pakistan	
7230	41.49	75		BBC London, Gt. Britain	
	41.49	110		Lvov, USSR	
	41.49	0.75	CR6RM	R.Cl. de Moçamedes, Angola	
	41.49	20		Paradys, So. Africa	
	41.49	1		Biak, Indonesia	
	41.49	5		Tokyo (NHK), Japan	
	41.49	10	JOZ6	Tokyo, Japan	
	41.49	3	DZL9	Call of the Orient, Philipp.	
7235	41.47	10/100/250		R. Free Europe, Germany	
	41.47	50/60/100		R. Roma, Italy	
	41.47	10	CR6RZ	R. Angola, Angola	
	41.47	10/100	VUD	AIR Delhi, India	
	41.47	7.5/100		BBC, Malaysia	
	41.47	35/100		Okinawa (VOA), Ryukyu Isl.	
7240	41.44	50		BBC London, Gt. Britain	
	41.44	100		Allouis, France	
	41.44	0.2/100	LLP	R. Norway, Norway	
	41.44	50		Tula, USSR	
	41.44	10		Nairobi, Kenya	
	41.44	0.3		Beira, Mozambique	
	41.44	7.5	YDP3	Medan, Indonesia	
	41.44	7.5/100		BBC, Malaysia	
	41.44	35/100		Okinawa (VOA), Ryukyu Isl.	
	41.44	1.5	BEC28	Taipei, Taiwan	
7245	41.41	1/50	OEI33	Vienna, Austria	
	41.41	10/100/250		R. Free Europe, Germany	
	41.41	4		St. Denis, Reunion	
	41.41	20		Saigon, Vietnam	
7250	41.38	25/100		Vatican Radio	
	41.38	7.5/10		Dacca, Pakistan	
	41.38	7.5		R. Singapura, Singapore	
	41.38	10	BED21	Taipei (BCC), Taiwan	
	41.38	0.5		Thai Army St, Thailand	
7255	41.35	50		R. Sofia, Bulgaria	
	41.35	10/100/250		R. Free Europe, Germany	
	41.35	250		BBC (VOA), Gt. Britain	
	41.35	50		Vladivostok, USSR	
	41.35	35/100		Tanger (VOA), Morocco	
	41.35	5		Lagos, Nigeria	
	41.35	10/100	VUD	AIR Delhi, India	
	41.35	20	YDJ4	Jogjakarta, Indonesia	
	41.35	25	BED51	Taipei (BCC), Taiwan	
7260	41.32	75		BBC London, Gt. Britain	
	41.32	100		Trans World Radio, Monaco	
	41.32	4		Dzaoudzi, Comores Isl.	
	41.32	10/100	VUD	AIR Delhi, India	
	41.32	3.5	BEC71	Air Force St, Taiwan	
7265	41.29	50		R. Tirana, Albania	
	41.29	1.5		Bodensecsender (SWF), Ger.	
7265	41.29	50		Riazan, USSR	
	41.29	50/100		Cairo, Un. Arab Rep.	
	41.29	10		Addis Ababa, Ethiopia	
	41.29	4/100		Lomé, Togo	
	41.29	10/100	VUD	AIR Delhi, India	
7270	41.27	5/100		Warsaw, Poland	
	41.27	100		Hörby, Sweden	
	41.27	50		Erevan, USSR	
	41.27	4		R. Gabon, Gabon	
	41.27	35/100		Tanger (VOA), Morocco	
	41.27	20		Paradys, So. Africa	
	41.27	7.5	YDB3	Djakarta, Indonesia	
	41.27	20		R. Malaysia, Sarawak	
	41.27	1.5	BEC34	Taipei, Taiwan	
7275	41.24	100	DMQ7	Deutsche Welle, Germany	
	41.24	50/60/100		R. Roma, Italy	
	41.24	15		Komsomolsk, USSR	
	41.24	20		Paradys, So. Africa	
	41.24	35		Colombo (VOA), Ceylon	
	41.24	10/50		Karachi, Pakistan	
	41.24	7.5/50		Malolos (VOA), Philippines	
	41.24	35/100		Poro (VOA), Philippines	
7280	41.21	100		Allouis, France	
	41.21	100	DMQ7	Deutsche Welle, Germany	
	41.21	75		BBC London, Gt. Britain	
	41.21	50		Moscow, USSR	
	41.21	50/250		Monrovia (VOA), Liberia	
	41.21	18		R. Mali, Mali	
	41.21	35/100		Tanger (VOA), Morocco	
	41.21	10		R. Tanzania, Tanzania	
	41.21	10		R. Malaysia, Malaysia	
	41.21	0.5	DXH2	Mindanao Br, Philippines	
	41.21	1.5	BEC24	Taipei, Taiwan	
7285	41.18	100		Praha, Czechoslovakia	
	41.18	10/100/250		R. Free Europe, Germany	
	41.18	20/50		R. Liberty, Germany	
	41.18	5/100		Warsaw, Poland	
	41.18	50		Khabarovsk, USSR	
	41.18	0.25	CR6RP	Novo Redondo, Angola	
	41.18	10		Ibadan (NBC), Nigeria	
	41.18	10/100	VUD	AIR Delhi, India	
	41.18	100	TAS	R. Ankara, Turkey	
7290	41.15	100	DMQ7	Deutsche Welle, Germany	
	41.15	35		Thessaloniki (VOA), Greece	
	41.15	100		Trans World Radio, Monaco	
	41.15	120		Moscow, USSR	
	41.15	5		Kisumu, Kenya	
	41.15	10/100	VUD	AIR Delhi, India	
	41.15	10/50		Karachi, Pakistan	
7295	41.12	10/100/250		R. Free Europe, Germany	
	41.12	20/50		R. Liberty, Germany	
	41.12	7.5/5		Athens, Greece	
	41.12	35		Thessaloniki (VOA), Greece	
	41.12	50		Novosibirsk, USSR	
	41.12	25/100		Vatican Radio	
	41.12	10		R. Bakwanga, Congo R.	
	41.12	10/100	VUD	AIR Delhi, India	
	41.12	1.5	YDQ3	Makassar, Indonesia	
7300	41.09	5		R.Berlin Int, Germany (GDR)	
	41.09	50		Petrozavodsk, USSR	
7305	41.07	15/100		R. Budapest, Hungary	
	41.07	50		Novosibirsk, USSR	
	41.07	10		R. Malaysia, Malaysia	
7306	41.06	0.35		Pathfinders St, Poland	
				7310–9500 kc	
7310	41.04	50		Sverdlovsk, USSR	
7320	40.98	15/100		BBC London, Gt. Britain	
	40.98	100		Minsk, USSR	
7325	40.96	15/100		BBC London, Gt. Britain	
	40.96	50		Orsha, USSR	
7330	40.93	50		Kiev, USSR	
**7335	40.90	3		Dominion Obs, Canada	
7340	40.87	50		Krasnoyarsk, USSR	
7345	40.85	100		Praha, Czechoslovakia	
	40.85	0.35		S. Cruz de la Palma, C. Isl.	
7350	40.82	50		Minsk, USSR	
7390	40.60	1	CR6RO	Silva Porto, Angola	
	40.60	7.5		Damascus, Syria	
**7397	40.56		GIC27	Hailsham, Gt. Britain	
**7428	40.39		FTH42	Paris, France	
7440	40.32			R. Moscow, USSR	
7443	40.31	25	HBX37	UN Geneva, Switzerland	
7475	40.13			Petropavlovsk, USSR	
**7515	39.92	10/1	VNG	Lyndhurst, Australia	
7547	39.71		ZNX32	Bridgetown, Barbados	
7580	39.22	5/50		Pyongyang, Korea (Dem. R.)	
7620	39.37	1		Police R. St, Thailand	

kc	m	kW	Call	Stations & countries	Rem.
7650	39.33	1		Erzurum, Turkey	
7670	39.11	15		R. Sofia, Bulgaria	
7700	38.96	0.33		Damascus, Syria	
7888	38.40	0.4		R. Isfahan, Iran	
7935	37.81	20	PSL	Agencia Nacional, Brazil	
8215	36.52	0.2		R. Shkodra, Albania	
**8634	34.74		PPR	Rio de Janeiro, Brazil	
**8638	34.72		DAM	Elmshorn, Germany	
**8721	34.40		PPE	Rio de Janeiro, Brazil	
9009	33.03	7.5/50		Tel Aviv, Israel	
9080	33.04	7.5/10		Dacca, Pakistan	
9250	32.43			Alma Ata, USSR	
9295	32.38	2.5	PRN9	R.Dif. Seguranca, Brazil	
**9350	32.09		GIC29	Hailsham, Gt. Britain	
9360	32.05	50		R. Nacional, Spain	
9370	32.02	100		R. Nacional, Spain	
9380	31.98			Alma Ata, USSR	
9390	31.95	50		R. Tirana, Albania	
9410	31.88	15/100		BBC London, Gt. Britain	
9435	31.80	7.5/10		Dacca, Pakistan	
9470	31.68			R. Moscow, USSR	
9475	31.66	50/100		Cairo, Un. Arab Rep.	
9480	31.65	50		Komsomolsk, USSR	
9485	31.62	7.5	4VC	Voix Revolution	
				Duvalieriste, Haiti	
9490	31.62			Baku, USSR	
9495	31.60	50/100		Cairo, Un. Arab Rep.	
				9500–9775 kc (31 m.b.)	
9500	31.58			Magadan, USSR	
	31.58	1	CE950	Corp. Chilena Bc, Chile	
9504	31.56	1	OAX8E	R. Loreto, Peru	
9505	31.56	100		Praha, Czechoslovakia	
	31.56	10/100/250		R. Free Europe, Germany	
	31.56	15		Chita, USSR	
	31.56	50		R. Belgrade, Yugoslavia	
	31.56	20/200		R. Japan, Japan	
	31.56	50	DZH7	Call of the Orient, Philipp.	
	31.56	50	HISD	R.St. Domingo, Dom. Rep.	
	31.56	5	CP38	R. Altiplano, Bolivia	
	31.56	7.5/50	PRB22	R. Record, Brazil	
	31.56	0.25	OAX6H	R. Tacna, Peru	
9510	31.55	75		BBC London, Gt. Britain	
	31.55	120		Bucharest, Rumania	
	31.55	50		Kazan, USSR	
	31.55	100		Alger, Algeria	
	31.55	10	YVXJ	R. Barquisimeto, Venezuela	
9515	31.53	100	ORU4	Wavre, Belgium	
	31.53	5		Caltanisetta, Italy	
	31.53	100		Erevan, USSR	
	31.53	100		Leningrad, USSR	
	31.53	1	CR6RM	Mocamedes, Angola	
	31.53	50/100		Cairo, Un. Arab Rep.	
	31.53	10		R. Malaysia, Malaysia	
	31.53	100	TAT	R. Ankara, Turkey	
	31.53	10	XEWW	Voz de la Am. Latina, Mex.	
	31.53	1	PRD5	R. Roquete Pinto, Brazil	
	31.53	10	CXA71	R. Sarandi, Uruguay	
9520	31.51	50	OZF5	R. Denmark, Denmark	
	31.51	10/100/250		R. Free Europe, Germany	
	31.51	20/50		R. Liberty, Germany	
	31.51	100		Leningrad, USSR	
	31.51	10	VLT9	Port Moresby, New Guinea	
	31.51	7.5	ZL18	R. New Zealand, New Zeal.	
	31.51	50/200		Delano, USA	
	31.51	1	CE952	R. El Morro, Chile	
9525	31.50	1/50	OEI49	Vienna, Austria	
	31.50	100		Allouis, France	
	31.50	15/100		BBC London, Gt. Britain	
	31.50	50/100		R. Nederland, Holland	
	31.50	5/100		Warsaw, Poland	
	31.50	100		Leningrad, USSR	
	31.50	20		Paradys, So. Africa	
	31.50	20/200		R. Japan, Japan	
	31.50	10/100		R. Habana, Cuba	
	31.50	50/250/500		Greenville, USA	
9530	31.48	100		Deutsche Welle, Germany	
	31.48	75		BBC London, Gt. Britain	
	31.48	100		Leningrad, USSR	
	31.48	50		Irkutsk, USSR	
	31.48	50/250		Monrovia (VOA), Liberia	
	31.48	5		R. Tanzania, Tanzania	
	31.48	10/100	VUD	AIR Delhi, India	
	31.48	20/200		R. Japan, Japan	
	31.48	100		Amman, Jordan	
	31.48	35/100		Poro (VOA), Philippines	
	31.48	50/500		Greenville, USA	
	31.48	1	OAX6L	R. Nac. Tacna, Peru	

kc	m	kW	Call	Stations & countries	Rem.
9530	31.48	1	YVMX	Maracaibo, Venezuela	
9535	31.46	250		Schwarzenburg, Switzerland	
	31.46	50		Kursk, USSR	
	31.46	10	CR6RZ	R. Angola, Angola	
	31.46	10/100	VUD	AIR Delhi, India	
9540	31.45	15/100		R. Budapest, Hungary	
	31.45	50/60/100		R. Roma, Italy	
	31.45	5/100		Warsaw, Poland	
	31.45	50		Erevan, USSR	
	31.45	50		Moscow, USSR	
	31.45	35/100		Tanger (VOA), Morocco	
	31.45	50		R. Ulan Bator, Mongolia	
	31.45	10/50/100		R. Australia, Australia	
	31.45	7.5	ZL2	R. New Zealand, New Zeal.	
	31.45	50/500		Greenville, USA	
9545	31.43	100	DMQ9	Deutsche Welle, Germany	
	31.43	100		Munich (VOA), Germany	
	31.43	20		Moscow, USSR	
	31.43	100/250		Accra, Ghana	
	31.43	100		Beyrouth, Lebanon	
	31.43	0.25	XEFT	La Voz de Vera Cruz, Mexico	
	31.43	50/200		Dixon, USA	
	31.43	7.5	ZYS43	R. Emis. Paranaense, Brazil	
	31.43	0.5	OAX4K	R. Central, Peru	
9550	31.41	0.2/100	LLD	R. Norway, Norway	
	31.41	10		Tromsö, Norway	
	31.41	20		Moscow, USSR	
	31.41	50/100		Cairo, Arab Un. Rep.	
	31.41	7.5	YDQ2	Makassar, Indonesia	
	31.41	1	YDS	Menado, Indonesia	
	31.41	50/80	WRUL	R. New York, USA	
	31.41	5		Grenada, Winward Isl.	
	31.41	1	CE955	R. Valentin Letelier, Chile	
	31.41	2.5	OAX1Z	R. Nac. Tumbes, Peru	
	31.41	15		Male Sinico R, Maldive Isl.	
9555	31.40	15	OIX2	Pori, Finland	
	31.40	20/50		R. Liberty, Germany	
	31.40	50		BBC London, Gt. Britain	
	31.40	20		Moscow, USSR	
	31.40	10		BBC Monrovia, Liberia	
	31.40	50		Baghdad, Iraq	
	31.40	50		Damascus, Syria	
	31.40	5	YSS	R. Nacional, El Salvador	
	31.40	1	XETT	La Hora Exacta, Mexico	
	31.40	10	CP6	R. Illimani, Bolivia	
9560	31.38	50		R. Sofia, Bulgaria	
	31.38	100		Praha, Czechoslovakia	
	31.38	100		Allouis, France	
	31.38			R. Berlin Int, Germ. (GDR)	
	31.38	50/100		R. Nederland, Holland	
	31.38	50		Krasnoyarsk, USSR	
	31.38	10/100	VUD	AIR Delhi, India	
	31.38	100		Amman, Jordan	
	31.38	35/100		Poro (VOA), Philippines	
	31.38	7.5/100		BBC, Malaysia	
	31.38	10	BED41	Taipei (BCC), Taiwan	
	31.38	50/500		Greenville, USA	
	31.38	1	CE956	Diego Portales, Chile	
9562	31.37	40	OAX4R	R. Nacional Lima, Peru	
9565	31.36	100	ETLF	Addis Ababa, Ethiopia	
	31.36	35/100		Tanger (VOA), Morocco	
	31.36	50/500		Greenville, USA	
9570	31.35	100		Allouis, France	
	31.35	120		Bucharest, Rumania	
	31.35	50		Riazan, USSR	
	31.35	50/100		Cairo, Un. Arab Rep.	
	31.35	7.5/100		BBC, Malaysia	
	31.35	10/50/100		R. Australia, Australia	
	31.35	1	HCJZ3	R. Fenix, Zaruma, Ecuador	
	31.35	1	OAX7F	R. Nacional Puno, Peru	
	31.35	1	YVOM	San Cristobal, Venezuela	
9575	31.33			R. Berlin Int, Germ. (GDR)	
	31.33	100	DMQ9	Deutsche Welle, Germany	
	31.33	50/60/100		R. Roma, Italy	
	31.33	10/100	VUD	AIR Delhi, India	
	31.33	10	ZYZ27	R. Mayrink Veiga, Brazil	
9577	31.33	0.4	OAX8Q	R. Pucallpa, Peru	
9580	31.32	75		BBC London, Gt. Britain	
	31.32			Erevan, USSR	
	31.32	20/200		R. Japan, Japan	
	31.32	7.5/50		Malolos (VOA), Philipp.	
	31.32	7.5/100		BBC, Malaysia	
	31.32	10/50/100		R. Australia, Australia	
9585	31.30	100		Allouis, France	
	31.30	50	YDF8	Djakarta, Indonesia	
	31.30	50/500		Greenville, USA	
	31.30	50	ZYR56	R. Excelsior, Brazil	

kc	m	kW	Call	Stations & countries	Rem.
9585	31.30	0.75	OBX4K	R. Selecta, Peru	
9590	31.28	50/100		R. Nederland, Holland	
	31.28	120		Bucharest, Rumania	
	31.28			Erevan, USSR	
	31.28	50		Tashkent, USSR	
	31.28	35/100		Poro (VOA), Philippines	
	31.28	50/500		Greenville, USA	
	31.28	260		TWR, Neth. Antilles	
	31.28	1	OAX5C	R. Ica, Peru	
9595	31.27	10/100/250		R. Free Europe, Germany	
	31.27	100		Schwarzenburg, Switzerland	
	31.27	10/50	JOZ3	Tokyo, Japan	
	31.27	20	ZYN29	R. Cult. da Bahia, Brazil	
	31.27	10	CXA72	R. Monte Carlo, Uruguay	
9600	31.25			R. Berlin Int, Germ. (GDR)	
	31.25	75		BBC London, Gt. Britain	
	31.25	50		Tashkent, USSR	
	31.25	50		Vladivostok, USSR	
	31.25	10/100	VUD	AIR Delhi, India	
	31.25	10/50/100		R. Australia, Australia	
	31.25	0.25	XEYU	Universidad Nac., Mexico	
	31.25	10	CE960	R. Pres. Balmaceda, Chile	
	31.25			R. Ayacucho, Peru	
9605	31.23	10/100/250		R. Free Europe, Germany	
	31.23	100	DMQ9	Deutsche Welle, Germany	
	31.23	7.5/5		Athens, Greece	
	31.23	50		Serpukhov, USSR	
	31.23	20/200		R. Japan, Japan	
	31.23	50/200		Dixon, USA	
	31.23	50/260		TWR Bonaire, Neth. Ant.	
	31.23	5	CP22	R. Prefectura, Bolivia	
9610	31.22	1/50		Vienna, Austria	
	31.22	50		BBC London, Gt. Britain	
	31.22	0.2/100	LLG	R. Norway, Norway	
	31.22	50		Khabarovsk, USSR	
	31.22	50		Tula, USSR	
	31.22	10		Addis Ababa, Ethiopia	
	31.22	30		R. Mauritania, Mauritania	
	31.22	10/50	VLW/X9	Perth, Australia	
	31.22	10	ZYC8	R. Tupi, Brazil	
	31.22	1	OAX8C	R. Nac. Iquitos, Peru	
9612	31.21	1	CR6RI	R. Diamang, Angola	
9615	31.20	20/100		Wavre, Belgium	
	31.20	100		Allouis, France	
	31.20			R. Berlin Int, Germ. (GDR)	
	31.20	20/50		R. Liberty, Germany	
	31.20	15/100		BBC London, Gt. Britain	
	31.20	100		R. Nacional, Spain	
	31.20	50		Tula, USSR	
	31.20	25/100		Vatican Radio	
	31.20	4		R. Tchad, Chad	
	31.20	35/100		Tanger (VOA), Morocco	
	31.20	100		Tanger, Morocco	
	31.20	10/100	VUD	AIR Delhi, India	
	31.20	50		Karachi, Pakistan	
	31.20	50/80	WRUL	R. New York, USA	
	31.20	3	TIRICA	Voz de la Victor, Costa Rica	
9618	31.19	0.5	OBX7E	R. El Sol, Peru	
9620	31.19	100		Allouis, France	
	31.19	100		Hörby, Sweden	
	31.19	15		Moscow, USSR	
	31.19	50		R. Belgrade, Yugoslavia	
	31.19	50		Saigon, Vietnam	
	31.19	10	ZYR96	R. 9 de Julho, Brazil	
	31.19	20	CXA6	S.O.D.R.E., Uruguay	
9625	31.17	75		BBC London, Gt. Britain	
	31.17	15		Moscow, USSR	
	31.17	100	4XB51	Tel Aviv, Israel	
	31.17	50		R. Canada, Canada	
	31.17	1	OAX8K	R. Atlantida, Peru	
9630	31.15	50/100		R. Nederland, Holland	
	31.15	50/60/100		R. Roma, Italy	
	31.15	100		Trans World Radio, Monac.	
	31.15	20		Irkutsk, USSR	
	31.15	50		Serpukhov, USSR	
	31.15	1	CR6RL	R. Cl. de Angola, Angola	
	31.15	10/100	VUD	AIR Delhi, India	
	31.15	50	DYH5	Dumaguete City, Philipp.	
	31.15	3	BED33	Chiayi (BCC), Taiwan	
	31.15	50		R. Canada, Canada	
9635	31.14	75		BBC London, Gt. Britain	
	31.14	10/100/250		R. Free Europe, Germany	
	31.14	50/100	CSA23	R. Nacional, Portugal	
	31.14	50		Vladivostok, USSR	
	31.14	50		R. Kabul, Afghanistan	
	31.14	50		Baghdad, Iraq	
	31.14	50		R. Singapura, Singapore	

kc	m	kW	Call	Stations & countries	Rem.
9635	31.14	50/500		Greenville, USA	
	31.14	0.25	4VU	R. Lumière, Haiti	
	31.14	7.5	ZYR83	R. Aparecida, Brazil	
	31.14	1	OCX4K	R. Expreso, Peru	
9640	31.12	100	DMQ9	Deutsche Welle, Germany	
	31.12	75		BBC London, Gt. Britain	
	31.12	50		Vladivostok, USSR	
	31.12	120		Serpukhov, USSR	
	31.12	50	HLK5	Seoul, Korea	
	31.12	50/500		Greenville, USA	
	31.12	2.5	YVPG	Ecos del Torbes, Venezuela	
	31.12	10	YVSC	R. Nacional, Venezuela	
9645	31.10	15/100		BBC London, Gt. Britain	
	31.10	0.2/100	LLH	R. Norway, Norway	
	31.10	50/100	CSA56	R. Nacional, Portugal	
	31.10	25/100		Vatican Radio	
	31.10	10/50		Karachi, Pakistan	
	31.10	100		Honolulu (VOA), Hawaii	
	31.10	2	TIFC	Faro del Caribe, Costa Rica	
	31.10	7.5	ZYV40	R. Cultura de Pocos, Brazil	
	31.10	30	HCJB	La Voz de los Andes, Ecuador	
	31.10	1	OAX1T	R. Grau, Peru	
9650	31.09			R. Berlin Int, Germ. (GDR)	
	31.09	15/100		BBC London, Gt. Britain	
	31.09	15		Moscow, USSR	
	31.09	50		Conakry, Guinea Rep.	
	31.09	20		Paradys, So. Africa	
	31.09			BBC, Cyprus	
	31.09	100		Honolulu (VOA), Hawaii	
	31.09	110		Bethany, USA	
	31.09	1	HRTL	R. Tic Tac, Honduras	
	31.09	1	CE965	R. Yungay, Chile	
9655	31.07	10/100/250		R. Free Europe, Germany	
	31.07	100	DMQ9	Deutsche Welle, Germany	
	31.07	100		Schwarzenburg, Switzerland	
	31.07	10		Kaduna (NBC), Nigeria	
	31.07	10/100	VUD	AIR Delhi, India	
	31.07	5		Tokyo (NHK), Japan	
	31.07	7.5/50		Malolos (VOA), Philippines	
	31.07	10	BED91	Taipei (BCC), Taiwan	
	31.07	2.5	HSDK	R. Thailand, Thailand	
9660	31.06	20/50		R. Liberty, Germany	
	31.06	15/100		BBC London, Gt. Britain	
	31.06	50		Minsk, USSR	
	31.06	50		R. Nac. Espana, Canary Isl.	
	31.06	250		Kigali (DW), Rwanda	
	31.06	10	VLQ9	Brisbane, Australia	
	31.06	7	LRX	R. El Mundo, Argentina	
9665	31.04	100		Schwarzenburg, Switzerland	
	31.04	50		Omsk, USSR	
	31.04	10/100	VUD	AIR Delhi, India	
	31.04	35/100		Poro (VOA), Philippines	
	31.04	50		Bound Brook, USA	
	31.04	50/200		Delano, USA	
	31.04	10	PRL8	R. Nac. Brasilia, Brazil	
	31.04	1	OAX8U	R. El Eco, Peru	
9667	31.03	100		Colombo, Ceylon	
9670	31.02	10/100/250		R. Free Europe, Germany	
	31.02	100		Schwarzenburg, Switzerland	
	31.02	50		Serpukhov, USSR	
	31.02	25/100		Vatican Radio	
	31.02	35/100		Tanger (VOA), Morocco	
	31.02	50		Jeddah, Saudi Arabia	
	31.02	5		Hue, Vietnam	
	31.02	50/500		Greenville, USA	
	31.02	5	TGNB	R. Cultural, Guatemala	
9675	31.01	100	DMQ9	Deutsche Welle, Germany	
	31.01	15/100		BBC London, Gt. Britain	
	31.01	5/100		Warsaw, Poland	
	31.01	15		Novosibirsk, USSR	
	31.01	25/100		Vatican Radio	
	31.01	1	CR6SG	R. Clube de Huila, Angola	
	31.01	100		Dakar, Senegal	
	31.01	5		R. Somali, Somali	
	31.01	20/200		R. Japan, Japan	
	31.01	10	ZYT29	R. Diário da Manha, Brazil	
	31.01	5	OAZ4L	R. del Pacifico, Peru	
9680	30.99	20/50		R. Liberty, Germany	
	30.99	20		Tashkent, USSR	
	30.99	10	VLH/R9	Melbourne, Australia	
9685	30.98	15		Moscow, USSR	
	30.98	50		Alger, Algeria	
	30.98	50/100		Cairo, Un. Arab Rep.	
	30.98	25	BED73	Taipei (BCC), Taiwan	
	30.98	50/80	WRUL	R. New York, USA	
	30.98	1	HOF31	Onda Popular, Panama	
	30.98	7.5	ZYR227	R. Gazeta, Brazil	

kc	m	kW	Call	Stations & countries	Rem.
9690	30.96	75		BBC London, Gt. Britain	
	30.96	20		Novosibirsk, USSR	
	30.96	25/100		Vatican Radio	
	30.96	100/250		Accra, Ghana	
	30.96			BBC, Cyprus	
	30.96	10/100	VUD	AIR Delhi, India	
	30.96	7.5/10		Dacca, Pakistan	
	30.96	0.25	DZH5	R. Veritas, Philippines	
	30.96	7.5/100		BBC, Malaysia	
	30.96	10	BED72	Taipei (BCC), Taiwan	
	30.96	100	LRA32	R. Nacional, Argentina	
9695	30.94	10/100/250		R. Free Europe, Germany	
	30.94	100		R. Nacional, Spain	
	30.94	15		Moscow, USSR	
	30.94	250		Kigali (DW), Rwanda	
	30.94	50		R. Cambodge, Cambodia	
	30.94	20/200		R. Japan, Japan	
	30.94	0.25	ZK3	Rarotonga, Cook Isl.	
	30.94	7.5	ZYB22	R. Rio Mar, Brazil	
	30.94	1	OCX4Y	R. Continente, Peru	
9700	30.93	120		R. Sofia, Bulgaria	
	30.93	15/100		BBC London, Gt. Britain	
	30.93	50		Sverdlovsk, USSR	
	30.93	50/100		Cairo, Un. Arab Rep.	
	30.93	25/100		Tanger (VOA), Morocco	
	30.93	35/100		Poro (VOA), Philippines	
	30.93	50/200		Delano, USA	
	30.93	10	CE970	La Voz de Chile, Chile	
9705	30.91	10/100/250		R. Free Europe, Germany	
	30.91	75		BBC London, Gt. Britain	
	30.91	100		Hörby, Sweden	
	30.91	50		Lvov, USSR	
	30.91	100	ETLF	Addis Ababa, Ethiopia	
	30.91	10/100	VUD	AIR Delhi, India	
	30.91	20/200		R. Japan, Japan	
	30.91	10	ZYZ24	R. Maua, Brazil	
9710	30.90			R. Berlin Int, Germ. (GDR)	
	30.90	10/100/250		R. Free Europe, Germany	
	30.90	15/100		BBC London, Gt. Britain	
	30.90	35		Thessaloniki, Greece	
	30.90	50/60/100		R. Roma, Italy	
	30.90	50		Frunze, USSR	
	30.90	50		Kiev, USSR	
	30.90	10		Forest Side, Mauritius	
	30.90	35/100		Tanger (VOA), Morocco	
	30.90	100		Beyrouth, Lebanon	
	30.90	35/100		Okinawa (VOA), Ryukyu Isl.	
	30.90	50/500		Greenville, USA	
	30.90	50/260		TWR Bonaire, Neth. Antilles	
	30.90	7	LRX2	R. El Mundo, Argentina	
	30.90	1	OAX9D	R. Tropical, Peru	
9715	30.88			R. Berlin Int, Germ. (GDR)	
	30.88	10/100/250		R. Free Europe, Germany	
	30.88	50/100		R. Nederland, Holland	
	30.88	100		Orenburg, USSR	
	30.88	50		R. TV Congolaise, Congo R.	
	30.88	50/100		Cairo, Un. Arab Rep.	
	30.88	2/10	DZF5	Call of the Orient, Philipp.	
	30.88	50		R. St. KGEI, USA	
	30.88	1	CP21	R. La Plata, Bolivia	
9720	30.86	10/100/250		R. Free Europe, Germany	
	30.86	75		BBC London, Gt. Britain	
	30.86	120		Riazan, USSR	
	30.86	4/100		Dakar, Senegal	
	30.86	20		Paradys, So. Africa	
	30.86	35		Colombo, Ceylon	
	30.86	50		Riyadh, Saudi Arabia	
	30.86	50	BED8	Taipei (BCC), Taiwan	
	30.86	0.2		Nhatrang, Vietnam	
	30.86	50	PRL7	R. Nacional, Brazil	
9725	30.85	100		R. Berlin Int, Germ. (GDR)	
	30.85	10/100/250		R. Free Europe, Germany	
	30.85	15/100		BBC London, Gt. Britain	
	30.85			Erevan, USSR	
	30.85	100		Irkutsk, USSR	
	30.85	100	4XB51	Tel Aviv, Israel	
	30.85	7.5/100		BBC, Malaysia	
	30.85	50/500		Greenville, USA	
9730	30.83	50		R. Berlin Int, Germ. (GDR)	
	30.83	50/100		R. Nederland, Holland	
	30.83	50/60/100		R. Roma, Italy	
	30.83	15		R. Brazzaville, Congo	
	30.83	100	ETLF	Addis Ababa, Ethiopia	
	30.83	10/100	VUD	AIR Delhi, India	
	30.83	7.5	ZYU59	R. Soc. Farroupilha, Brazil	
9735	30.82	100	DMQ9	Deutsche Welle, Germany	
	30.82	75		BBC London, Gt. Britain	
9735	30.82	50		Tula, USSR	
	30.82	250		Kigali (DW), Rwanda	
9740	30.80	15/100		BBC London, Gt. Britain	
	30.80	50/100	CSA27	R. Nacional, Portugal	
	30.80	50		Tula, USSR	
	30.80	35/100		Tanger (VOA), Morocco	
	30.80	20/200		R. Japan, Japan	
	30.80	100		Amman, Jordan	
	30.80	10/50		Karachi, Pakistan	
	30.80	50/80	WRUL	R. New York, USA	
	30.80	1	LRS1	R. Splendid, Argentina	
9745	30.78	20/100	ORU3/5	Wavre, Belgium	
	30.78	50/100		R. Nederland, Holland	
	30.78	100		Moscow, USSR	
	30.78	50		R. Mali, Mali	
	30.78	5		Sukarnopura, Indonesia	
	30.78	3.5	BEC62	Air Force St., Taiwan	
	30.78	20	TAP	R. Ankara, Turkey	
	30.78	7.5	ZYR57	R. Cultura, Brazil	
	30.78	1/30	HCJB	La Voz de los Andes, Ecuad.	
9750	30.77	10/100/250		R. Free Europe, Germany	
	30.77	20/50		R. Liberty, Germany	
	30.77	75		BBC London, Gt. Britain	
	30.77	50		Simferopol, USSR	
	30.77	50		Vladivostok, USSR	
	30.77	50/100		Cairo, Un. Arab Rep.	
	30.77	5/50		Pyongyang, Korea (Dem. R.)	
	30.77	10/50		Karachi, Pakistan	
	30.77	50		R. Malaysia, Malaysia	
	30.77	2.1	OAX8W	R. Sideral, Peru	
9752	30.77	0.35	PZC	R. Suriname, Surinam	
9755	30.76	100		Allouis, France	
	30.76	75		BBC London, Gt. Britain	
	30.76	50/100		R. Nederland, Holland	
	30.76	50		Orsha, USSR	
	30.76	50/100		Cairo, Un. Arab Rep.	
	30.76	100	ETLF	Addis Ababa, Ethiopia	
	30.76	1		Saigon, Vietnam	
	30.76	1	ZYW23	R. Anhanguera, Brazil	
9760	30.74	100		Munich (VOA), Germany	
	30.74	15/100		BBC London, Gt. Britain	
	30.74	50		Omsk, USSR	
	30.74	100/250		Accra, Ghana	
	30.74	0.3		Diyarbakir, Turkey	
	30.74			Hanoi, Vietnam (Dem. R.)	
	30.74	50/200		Delano, USA	
	30.74	50/500		Greenville, USA	
9765	30.72	50		R. Sofia, Bulgaria	
	30.72	100	DMQ9	Deutsche Welle, Germany	
	30.72	75		BBC London, Gt. Britain	
	30.72	100		Hörby, Sweden	
	30.72	100		Leningrad, USSR	
	30.72	100	ETLF	Addis Ababa, Ethiopia	
	30.72	10/100	VUD	AIR Delhi, India	
	30.72	20/200		R. Japan, Japan	
9770	30.71	1/50	OEI47	Vienna, Austria	
	30.71	75		BBC London, Gt. Britain	
	30.71	100		Vladivostok, USSR	
	30.71	0.3		Iskenderun, Turkey	
	30.71	50/500		Greenville, USA	
	30.71	2.5	4VEH	R. St. 4VEH, Haiti	
	30.71	1	OAX8O	R. Amazonas, Peru	
	30.71	1	PRL4	R. Dif. Educaçao, Brazil	
				9775–11700 kc	
9775	30.69	50/100		Cairo, Un. Arab Rep.	
9780	30.67	50		Erevan, USSR	
9785	30.66	50		Jigulevsk, USSR	
9790	30.64	50/100		Cairo, Un. Arab Rep.	
9795	30.63	100		Praha, Czechoslovakia	
9800	30.61	50		Kazan, USSR	
9810	30.58	50		Moscow, USSR	
9815	30.57	50/100		Cairo, Un. Arab Rep.	
9819	30.56	50/100		Cairo, Un. Arab Rep.	
9820	30.55	10/50		Karachi, Pakistan	
9825	30.53	15/100		BBC London, Gt. Britain	
9833	30.51	15/100		Budapest, Hungary	
9840	30.49			Baku, USSR	
	30.49			Hanoi, Vietnam (Dem. R.)	
9865	30.40	50	YDF6	Djakarta, Indonesia	
9875	30.38	5/50		Pyongyang, Korea (Dem. R.)	
9905	30.29			Khabarovsk, USSR	
9915	30.26	15/100		BBC London, Gt. Britain	
	30.26	10/100	VUD	AIR Delhi, India	
*10000	30.00	0.5	MSF	Teddington, Gt. Britain	
*	30.00	20	RWM	Moscow, USSR	
**	30.00	0.25	ZUO	Johannesburg, So. Africa	
*	30.00		BVP	Peking, China	

kc	m	kW	Call	Stations & countries	Rem.
*10000	30.00	2	ATA	New Delhi, India	
*	30.00	2	JJY	Tokyo, Japan	
*	30.00	2	WWVH	Puunene, Hawaii	
*	30.00	9	WWH	Lanham, USA	
**	30.00	2	LOL	Buenos Aires, Argentina	
10220	29.25	20	PSH	Agencia Nacional, Brazil	
** 10331	29.05		GPB30B	Hailsham, Gt. Britain	
** 10332	29.04		GPB30A	Hailsham, Gt. Britain	
10335	29.03	10/100	VUD	AIR Delhi, India	
10530	28.50			Alma Ata, USSR	
**10775	27.84		FTK77	Paris, France	
10885	27.60	25		Ulan Bator, Mongolia	
11000	27.27			Szechuan, China	
11015	27.25		ZNX49	Bridgetown, Barbados	
11570	25.93	50		Moscow, USSR	
11640	25.77			Hanoi, Vietnam (Dem. R.)	
11672	25.70	10/50		Karachi, Pakistan	
11685	25.67	1	CR6RR	R. Diamang, Angola	
11690	25.66			Erevan, USSR	
11695	25.65			Tashkent, USSR	
				11770–11975 kc (25 m.b.)	
11700	25.64			Leningrad, USSR	
	25.64	120		Serpukhov, USSR	
	25.64	1	TGQB	R. Nacional, Guatemala	
11705	25.63	15/100		BBC London, Gt. Britain	
	25.63	100		Hörby, Sweden	
	25.63	50		Petropavlovsk, USSR	
	25.63	120		Serpukhov, USSR	
	25.63	50/250		Monrovia (VOA), Liberia	
	25.63	20/200		R. Japan, Japan	
	25.63	10/100		R. Habana, Cuba	
11710	25.62	15/100		BBC London, Gt. Britain	
	25.62	50/100		R. Nederland, Holland	
	25.62	15		Moscow, USSR	
	25.62	50		R. Brazzaville, Congo	
	25.62	35/100		Tanger (VOA), Morocco	
	25.62	10/100	VUD	AIR Delhi, India	
	25.62	10/50/100		R. Australia, Australia	
	25.62	50		R. St. KGEI, USA	
	25.62	100	LRA35	R. Nacional, Argentina	
11715	25.61	100		R. Sofia, Bulgaria	
	25.61	100		R. Nacional, Spain	
	25.61	100		Schwarzenburg, Switzerland	
	25.61	50		Dushanbe, USSR	
	25.61	50		Orenburg, USSR	
	25.61	10/100	VUD	AIR Delhi, India	
	25.61	100	YDF2	Djakarta, Indonesia	
	25.61	35/100		Okinawa (VOA), Ryukyu Isl.	
11720	25.60	15/100		BBC London, Gt. Britain	
	25.60	7.5/5		Athens, Greece	
	25.60	100		Sverdlovsk, USSR	
	25.60	10/50	OQ2AA	R. Leo, Congo Rep.	
	25.60			BBC, Cyprus	
	25.60	50		R. Canada, Canada	
	25.60	50/200		Dixon, USA	
	25.60	10	PRL8	R. Nacional Brasilia, Br.	
11725	25.59	100		Allouis, France	
	25.59	10/100/250		R. Free Europe, Germany	
	25.59	20/50		R. Liberty, Germany	
	25.59	50		R. Brazzaville, Congo	
	25.59	20/200		R. Japan, Japan	
	25.59	7.5/100		BBC, Malaysia	
	25.59	50	BED75	Taipei (BCC), Taiwan	
	25.59	50		R. Canada, Canada	
	25.59	50/80	WRUL	R. New York, USA	
11730	25.58	50/100		R. Nederland, Holland	
	25.58	100		Vinnitsa, USSR	
	25.58	10/100	VUD	AIR Delhi, India	
	25.58	100		R. Iran, Iran	
11735	25.56	10/100/250		R. Free Europe, Germany	
	25.56	100	LKJ	R. Norway, Norway	
	25.56	10		Tromsö, Norway	
	25.56	100		R. Belgrade, Yugoslavia	
	25.56	50		Konevo, USSR	
	25.56	25/100		Vatican Radio	
	25.56	100/250		Accra, Ghana	
	25.56	50		Tanger, Morocco	
*	25.56	35/100		Tanger (VOA), Morocco	
	25.56	50		R. Kabul, Afghanistan	
	25.56	7.5/50		Malolos (VOA), Philipp.	
	25.56	10/100		R. Habana, Cuba	
	25.56	7.5	ZYW28	R. Cl. de Goiania, Brazil	
	25.56	5	CXA7	R. Oriental, Uruguay	
11740	25.55	15		Tula, USSR	
	25.55	25/100		Vatican Radio	
	25.55	10/100	VUD	AIR Delhi, India	
	25.55	2	DZF6	Call of the Orient, Philipp.	
11740	25.55	10/50/100		R. Australia, Australia	
	25.55	1	XEMP	R. Dif. XEMP, Mexico	
	25.55	5	CE1174	R. Nuevo Mundo, Chile	
11745	25.54	10/100/250		R. Free Europe, Germany	
	25.54	50		Alma Ata, USSR	
	25.54	50		Erevan, USSR	
	25.54	50/100		Cairo, Un. Arab Rep.	
	25.54	10/50		Karachi, Pakistan	
	25.54	10	ZYR65	R. Piratininga, Brazil	
11750	25.53	75		BBC London, Gt. Britain	
	25.53	100		Simferopol, USSR	
	25.53	50		R. Mali, Mali	
	25.53	7.5	YDQ2	Makassar, Indonesia	
	25.53	1/10		Tokyo (FEN), Japan	
	25.53	5/50		Pyongyang, Korea (Dem. R.)	
	25.53	7.5/100		BBC, Malaysia	
	25.53	0.33		Damascus, Syria	
	25.53	0.5	TGRA	R. Modelo, Guatemala	
11755	25.52	10/100/250		R. Free Europe, Germany	
	25.52	50/100		R. Nederland, Holland	
	25.52	100		Leningrad, USSR	
	25.52	50		Vladivostok, USSR	
	25.52	30	HCJB	La Voz de los Andes, Ecuad.	
11760	25.51	10/100/250		R. Free Europe, Germany	
	25.51	25/100		Vatican Radio	
	25.51	50/250		Monrovia (VOA), Liberia	
	25.51	10/100	VUD	AIR Delhi, India	
	25.51	10/50/100		R. Australia, Australia	
	25.51	0.25	ZK4	R. Rarotonga, Cook Isl.	
	25.51	50/500		Greenville, USA	
	25.51	10/100		R. Habana, Cuba	
11765	25.50			R. Berlin Int, Germ. (GDR)	
	25.50	25	ZYB8	R. Dif. São Paulo, Brazil	
11770	25.49	15/100		BBC London, Gt. Britain	
	25.49	20/50		R. Liberty, Germany	
	25.49	100		Kiev, USSR	
	25.49	250		Kigali (DW), Rwanda	
	25.49	7.5	YDE	Djakarta, Indonesia	
	25.49	110		Bethany, USA	
	25.49	30	HCJB	La Voz de los Andes, Ecuad.	
11775	25.48	100	DMQ11	Deutsche Welle, Germany	
	25.48	10/100/250		R. Free Europe, Germany	
	25.48	50		Kursk, USSR	
	25.48	50/200		Delano, USA	
	25.48	10	ZYZ28	R. Mayrink Veiga, Brazil	
11780	25.47	75		BBC London, Gt. Britain	
	25.47	50/100		R. Nederland, Holland	
	25.47	50		Okhotsk, USSR	
	25.47	5/100		R. Cl. de Mozambique, Mo.	
	25.47	10/100	VUD	AIR Delhi, India	
	25.47	20/200		R. Japan, Japan	
	25.47	7.5	ZL3	R. New Zealand, New Zeal.	
	25.47	7/10	LRY2	R. Belgrano, Argentina	
11785	25.46	1/50	OEI52	Vienna, Austria	
	25.46	100	DMQ11	Deutsche Welle, Germany	
	25.46	50		Vinnitsa, USSR	
	25.46	25/100		Vatican Radio	
	25.46	10/100	VUD	AIR Delhi, India	
	25.46	100	YDF2	Djakarta, Indonesia	
	25.46	7.5	ZYU61	R. Guaiba, Brazil	
11790	25.45	50		Erevan, USSR	
	25.45	35/100		Tanger (VOA), Morocco	
	25.45	100		Beyrouth, Lebanon	
	25.45	10/50/100		R. Australia, Australia	
	25.45	50/200		Delano, USA	
	25.45	50/80	WRUL	R. New York, USA	
11795	25.43	100	DMQ11	Deutsche Welle, Germany	
	25.43			R. Berlin Int, Germ. (GDR)	
	25.43	75		BBC London, Gt. Britain	
	25.43	10/50		Leopoldville, Congo Rep.	
	25.43	20	YDF3	Djakarta, Indonesia	
	25.43	50	WINB	Red Lion, USA	
	25.43	10	PRL3	R. Nacional Rio, Brazil	
11800	25.42	75		BBC London, Gt. Britain	
	25.42	50/100		R. Nederland, Holland	
	25.42	15		Novosibirsk, USSR	
	25.42	50		R. Nacional Espana, Can. I.	
	25.42	100/250		Accra, Ghana	
	25.42	35		Colombo, Ceylon	
	25.42	20/200		R. Japan, Japan	
	25.42	50/80	WRUL	R. New York, USA	
11805	25.41	10	OIX8	Pori, Finland	
	25.41	10/100/250		R. Free Europe, Germany	
	25.41	100		Hörby, Sweden	
	25.41	50		Kazan, USSR	
	25.41	50/100		Cairo, Un. Arab Rep.	
	25.41	7.5/10		Malolos (VOA), Philippines	

kc	m	kW	Call	Stations & countries	Rem.
11805	25.41	35/100		Poro (VOA), Philippines	
	25.41	50/200		Delano, USA	
	25.41	50/500		Greenville, USA	
	25.41	10	ZYZ36	R. Globo, Brazil	
11810	25.40	50/60/100		R. Roma, Italy	
	25.40	120		Bucharest, Rumania	
	25.40	100		Hörby, Sweden	
	25.40	100		Schwarzenburg, Switzerland	
	25.40	100		Simferopol, USSR	
	25.40	50		Alger, Algeria	
	25.40	10/100	VUD	AIR Delhi, India	
	25.40	5		Amman, Jordan	
	25.40	100		Beyrouth, Lebanon	
	25.40	10/50/100		R. Australia, Australia	
	25.40	50/200		Delano, USA	
	25.40	5	CE1181	R. Soc. Nac. Agricultura, Ch.	
11815	25.39	10/100/250		R. Free Europe, Germany	
	25.39	100		Kiev, USSR	
	25.39	50		Mali, Mali	
	25.39	20/200		R. Japan, Japan	
	25.39	50/500		Greenville, USA	
	25.39	7.5	ZYW24	R. Brasil Central, Brazil	
11820	25.38			R. Berlin Int, Germ. (GDR)	
	25.38	10/100/250		R. Free Europe, Germany	
	25.38	75		BBC London, Gt. Britain	
	25.38	50		Sverdlovsk, USSR	
	25.38	100		R. Abidjan, Ivory Coast	
	25.38	7.5/100		BBC, Malaysia	
	25.38	50/260		TWR Bonaire, Neth. Ant.	
11825	25.37	20	ORU5	Wavre, Belgium	
	25.37	50		Kharkov, USSR	
	25.37	25	BED69	Taipei (BCC), Taiwan	
	25.37	4		Pepéete, Tahiti	
11830	25.36	10/100/250		R. Free Europe, Germany	
	25.36	50		Erevan, USSR	
	25.36	100		Moscow, USSR	
	25.36	7.5/100		BBC, Malaysia	
	25.36	50/200		Dixon, USA	
	25.36	50/500		Greenville, USA	
11835	25.35	50		Riazan, USSR	
	25.35	50		Alger, Algeria	
	25.35	10/50		Leopoldville, Congo Rep.	
	25.35	5/100		R. Cl. de Mozambique, Mo.	
	25.35	35		Colombo (VOA), Ceylon	
	25.35	35/100		Okinawa (VOA), Ryukyu Isl.	
	25.35	0.5	4VEJ	R. St. 4VEH, Haiti	
	25.35	5	CXA19	E. Espectador, Uruguay	
11840	25.34	50		BBC London, Gt. Britain	
	25.34	10/100/250		R. Free Europe, Germany	
	25.34	5/100		Warsaw, Poland	
	25.34	50/100	CSA31	R. Nacional, Portugal	
	25.34	50		Irkutsk, USSR	
	25.34	10/100	VUD	AIR Delhi, India	
	25.34			Hanoi, Vietnam (Dem. Rep)	
	25.34	10/50/100		R. Australia, Australia	
	25.34	10	PRC23	R. TV Gaúcha, Brazil	
11845	25.33	100		Allouis, France	
	25.33	50		Irkutsk, USSR	
	25.33	10/100	VUD	AIR Delhi, India	
	25.33	35/100		Poro (VOA), Philippines	
	25.33	100		Honolulu (VOA), Hawaii	
11850	25.32	100		Allouis, France	
	25.32	10/120	LLK	R. Norway, Norway	
	25.32	50		Kazan, USSR	
	25.32	50		Vladivostok, USSR	
	25.32	250		Kigali (DW), Rwanda	
	25.32	10/100	VUD	AIR Delhi, India	
	25.32	50		Ulan Bator, Mongolia	
	25.32	1	CE1185	R. Cruz del Sur, Chile	
	25.32	3	ZPA3	R. Teleco, Paraguay	
11855	25.31	10/100/250		R. Free Europe, Germany	
	25.31	250		Kigali (DW), Rwanda	
	25.31	7.5/20		Omdurman, Sudan	
	25.31	50/100		Cairo, Un. Arab Rep.	
	25.31	10/100	VUD	AIR Delhi, India	
	25.31	20/200		R. Japan, Japan	
	25.31	50	DZH8	Call of the Orient, Philipp.	
	25.31	50		Jeddah, Saudi Arabia	
	25.31	50/80	WRUL	R. New York, USA	
11860	25.30	75		BBC London, Gt. Britain	
	25.30	100		Gorki, USSR	
	25.30	35/100		Poro (VOA), Philippines	
	25.30	50	BED45	Taipei (BCC), Taiwan	
11865	25.28	100		Schwarzenburg, Switzerland	
	25.28	10		Katanga, Congo Rep.	
	25.28	10/100	VUD	AIR Delhi, India	
	25.28	20/200		R. Japan, Japan	
11865	25.28	35/100		Poro (VOA), Philippines	
	25.28	7.5	PRA8	R. Cl. Pernambuco, Brazil	
11870	25.27	100	ORU4	Wavre, Belgium	
	25.27	20/50		R. Liberty, Germany	
	25.27	10		Kaunas, USSR	
	25.27	50/100		Cairo, Un. Arab Rep.	
	25.27	100		Amman, Jordan	
	25.27	50		Jeddah, Saudi Arabia	
	25.27	50/500		Greenville, USA	
11875	25.26	5		R. Nacional, Portugal	
	25.26	25/100		Vatican Radio	
	25.26	100	ETLF	Addis Ababa, Ethiopia	
	25.26	20/200		R. Japan, Japan	
	25.26	10/50		Karachi, Pakistan	
	25.26	50	DYH6	Dumaguete City, Philippines	
	25.26	7.5/50		Malolos (VOA), Philippines	
	25.26	35/100		Poro (VOA), Philippines	
	25.26	7.5	ZYN32	R. Soc. Bahia, Brazil	
11880	25.25	75		BBC London, Gt. Britain	
	25.25	15		Sverdlovsk, USSR	
	25.25	7.5/100		BBC, Malaysia	
	25.25	10/50/100		R. Australia, Australia	
	25.25	10	VLH11	Melbourne, Australia	
	25.25	50/200		Dixon, USA	
	25.25	50/80	WRUL	R. New York, USA	
	25.25	5	XEHH	R. Dif. Comerciales, México	
	25.25	1	LRS	R. Splendid, Argentina	
11885	25.24	100		Allouis, France	
	25.24	10/100/250		R. Free Europe, Germany	
	25.24	120		Bucharest, Rumania	
	25.24	10/50		Karachi, Pakistan	
	25.24	10	CXA68	R. Sarandi, Uruguay	
11890	25.23	100	DMQ11	Deutsche Welle, Germany	
	25.23	15/100		BBC London, Gt. Britain	
	25.23	50		Erevan, USSR	
	25.23	120		Riazan, USSR	
	25.23	100	ETLF	Addis Ababa, Ethiopia	
	25.23	10/100	VUD	AIR Delhi, India	
	25.23	2		Call of the Orient, Philipp.	
	25.23	110		Bethany, USA	
11895	25.22	10/100/250		R. Free Europe, Germany	
	25.22	50		Minsk, USSR	
	25.22	10/100	VUD	AIR Delhi, India	
	25.22	50/200		Delano, USA	
	25.22	5		Grenada, Windward Isl.	
11900	25.21	15		Sverdlovsk, USSR	
	25.21	20		Paradys, So. Africa	
	25.21	100		R. Malaysia, Malaysia	
	25.21	5	CE1190	La Voz de Chile, Chile	
	25.21	20	CXA10	S.O.D.R.E, Uruguay	
11905	25.20	75/100		BBC London, Gt. Britain	
	25.20	50/60/100		R. Roma, Italy	
	25.20	50		Kazan, USSR	
	25.20	250		Kigali (DW), Rwanda	
	25.20	3	BED44	Taipei (BCC), Taiwan	
11910	25.19	75/100		BBC London, Gt. Britain	
	25.19	15/100		R. Budapest, Hungary	
	25.19	15		Moscow, USSR	
	25.19	100		Tel Aviv, Israel	
	25.19	100	HSK9	R. Thailand, Thailand	
	25.19	30	HCJB	La Voz de los Andes, Ecuad.	
11915	25.18	10/100/250		R. Free Europe, Germany	
	25.18	50/100		R. Nederland, Holland	
	25.18	100		Hörby, Sweden	
	25.18	50		Orenburg, USSR	
	25.18	50/100		Cairo, Un. Arab Rep.	
	25.18	20		Damascus, Syria	
	25.18	30	HCJB	La Voz de los Andes, Ecuad.	
11920	25.17	15/100		BBC, London, Gt. Britain	
	25.17	50		Moscow, USSR	
	25.17	35/100		Tanger (VOA), Morocco	
	25.17	75/100		BBC, Malaysia	
	25.17	50	DZF2	Call of the Orient, Philipp.	
	25.17	50/500		Greenville, USA	
11925	25.16	100	DMQ11	Deutsche Welle, Germany	
	25.16	75		BBC London, Gt. Britain	
	25.16	7.5/5		Athens, Greece	
	25.16	100	CSA95	R. Nacional, Portugal	
	25.16	50		Tashkent, USSR	
	25.16	50	HLK6	Seoul, Korea	
	25.16	10	ZYR78	R. Bandeirantes, Brazil	
11930	25.15	100	DMQ11	Deutsche Welle, Germany	
	25.15	10/100/250		R. Free Europe, Germany	
	25.15	75		BBC London, Gt. Britain	
	25.15	50/100		R. Nederland, Holland	
	25.15	150		Moscow, USSR	
	25.15	50		R. Brazzaville, Congo Rep.	

kc	m	kW	Call	Stations & countries	Rem.
11930	25.15	7.5/100		BBC, Malaysia	
	25.15	35/100		Poro (VOA), Philippines	
11935	25.14	20/50		R. Liberty, Germany	
	25.14	50/100		R. Nederland, Holland	
	25.14	50/100	CSA72	R. Nacional, Portugal	
	25.14	7.5	ZYS35	R. Cl. Paranaense, Brazil	
11940	25.13	10/100/250		R. Free Europe, Germany	
	25.13	120		Bucharest, Rumania	
	25.13	100		Riga, USSR	
	25.13	1	CR6SG	R. Cl. de Huila, Angola	
	25.13	50/100		Cairo, Un. Arab Rep.	
	25.13	20/200		R. Japan, Japan	
	25.13	1/10/50		R. Kuwait, Kuwait	
	25.13	50		R. Singapura, Singapore	
	25.13	50/500		Greenville, USA	
11945	25.12	75		BBC London, Gt. Britain	
	25.12	5	ZPA5	R. Encarnación, Paraguay	
11950	25.10	50/100		R. Nederland, Holland	
	25.10	15		Kharkov, USSR	
	25.10	50		Vladivostok, USSR	
	25.10	100		Jeddah, Saudi Arabia	
	25.10	50/500		Greenville, USA	
	25.10	7.5	PRL9	R. Dif. Educação, Brazil	
11955	25.09	75		BBC London, Gt. Britain	
	25.09	50/100		R. Nederland, Holland	
	25.09	50		Alma Ata, USSR	
	25.09	7.5/100		BBC, Malaysia	
	25.09	50/260		TWR Bonaire, Neth. Antilles	
	25.09	50/500		Greenville, USA	
11960	25.08	100		Praha, Czechoslovakia	
	25.08	50/100		R. Nederland, Holland	
	25.08	100		Trans World Radio, Monaco	
	25.08	50		Serpukhov, USSR	
	25.08	35/100		Tanger (VOA), Morocco	
	25.08	50		Bound Brook, USA	
	25.08	50/80	WRUL	R. New York, USA	
	25.08	5	CE1196	R. Soc. Nac. de Mineria, Chile	
11965	25.07	100	DMQ11	Deutsche Welle, Germany	
	25.07	100		Conakry, Guinea Rep.	
	25.07	35/100		Poro (VOA), Philippines	
	25.07	50	PRB24	R. Record, Brazil	
11970	25.06	1/50		Vienna, Austria	
	25.06	20/50		R. Liberty, Germany	
	25.06	50/100		R. Nederland, Holland	
	25.06	15		Kharkov, USSR	
	25.06	4		R. Brazzaville, Congo	
	25.06	50		R. Tunis, Tunisia	
	25.06	100		Amman, Jordan	
	25.06	3	BED37	Chiayi (BCC), Taiwan	
	25.06	50/80	WRUL	R. New York, USA	
	25.06	10/100		R. Habana, Cuba	
11975	25.05	10/50		ELWA, Liberia	
11980	25.04	50		Komsomolsk, USSR	
	25.04	50/100		Cairo, Un. Arab Rep.	
11990	25.02	100		Praha, Czechoslovakia	
	25.02	50		Dushanbe, USSR	
				11995–15100 kc	
12000	25.00	100		Armavir, USSR	
**12005	24.99	10	VNG	Lyndhurst, Australia	
12010	24.98	20		Novosibirsk, USSR	
12015	24.97	50		Khabarovsk, USSR	
12020	24.96	100		Armavir, USSR	
12030	24.94	20		Novosibirsk, USSR	
12040	24.92	15/100		BBC London, Gt. Britain	
	24.92	50		Vladivostok, USSR	
12050	24.90	50		Vinnitsa, USSR	
	24.90	50/100		Cairo, Un. Arab Rep.	
12058	24.88	2	PRB25	Agencia Nacional, Brazil	
12060	24.88	50		Moscow, USSR	
12070	24.86	100		Kiev, USSR	
12095	24.80	15/100		BBC London, Gt. Britain	
**12763	23.50		DAM	Elmshorn, Germany	
**12790	23.80		GKU5	Hailsham, Gt. Britain	
**13105	22.89		PPR	Rio de Janeiro, Brazil	
**13555	22.15		GIC33	Hailsham, Gt. Britain	
13750	21.82			Khabarovsk, USSR	
	21.82	5/50		Pyongyang, Korea (Dem. R.)	
**13873	21.62		FTN87	Paris, France	
14520	20.66	5/50		Pyongyang, Korea (Dem. R.)	
**14670	20.45	3	CHU	Dom. Observatory, Canada	
14690	20.43	20	PSF	Agencia Nacional, Brazil	
15000	20.00	20	RWM	Moscow, USSR	
	20.00		BPV	Peking, China	
	20.00	2	JJY	Tokyo, Japan	
	20.00	2	WWVH	Puunene, Hawaii	
	20.00	9	WWV	Lanham, USA	
**	20.00	2	LOL	Buenos Aires, Argentina	
15044	19.94			Hanoi, Vietnam (Dem. Rep)	
15070	19.91	15/100		BBC London, Gt. Britain	
15085	19.89	5		Grenada, Windward Isl.	
				15100–15450 kc (19 m.b.)	
15100	19.87	100		Krasnoyarsk, USSR	
	19.87	10/50		Karachi, Pakistan	
15105	19.86	50/75		BBC London, Gt. Britain	
	19.86	10/100	VUD	AIR Delhi, India	
	19.86	20/200		R. Japan, Japan	
	19.86	100		Honolulu (VOA), Hawaii	
	19.86	7.5	ZYZ32	R. Rural Brasileira, Brazil	
15110	19.85	15/100		BBC London, Gt. Britain	
	19.85	100		Kiev, USSR	
	19.85	5		Merauke, Indonesia	
	19.85	100		R. Iran, Iran	
	19.85	7.5	ZL21	R. New Zealand, New Zeal.	
	19.85	1	XERR	R.Dif. Comerciales, México	
	19.85	30	HCJB	La Voz de los Andes, Ecuad.	
15115	19.85	10/100/250		R. Free Europe, Germany	
	19.85	25/100		Vatican Radio	
	19.85	50/100		Cairo, Un. Arab Rep.	
	19.85	20/200		R. Japan, Japan	
	19.85	5	CE1511	R. Soc. Nac. de Mineria, Chile	
	19.85	1/30	HCJB	La Voz de los Andes, Ecuad.	
15120	19.84	5/100		Warsaw, Poland	
	19.84	25/100		Vatican Radio	
	19.84	100		Honolulu (VOA), Hawaii	
15125	19.83	20/50		R. Liberty, Germany	
	19.83	50/100	CSA64	R. Nacional, Portugal	
	19.83	10/100	VUD	AIR Delhi, India	
	19.83	50	HLK41	Suwon, Korea	
	19.83	100	BED60	Taipei (BCC), Taiwan	
15130	19.83	100		Allouis, France	
	19.83	20/50		R. Liberty, Germany	
	19.83	50		Simferopol, USSR	
	19.83	10/100	VUD	AIR Delhi, India	
	19.83	5		Grenada, Windward Isl.	
15135	19.82	10/100/250		R. Free Europe, Germany	
	19.82	35/100		Tanger (VOA), Morocco	
	19.82	10/100	VUD	AIR Delhi, India	
	19.82	20/200		R. Japan, Japan	
	19.82	10	PRB23	R. Panamericana, Brazil	
15140	19.82	75/100		BBC London, Gt. Britain	
	19.82	50		Petropavlovsk, USSR	
	19.82	50		Riazan, USSR	
15145	19.81	10/100/250		R. Free Europe, Germany	
	19.81	15	ZYK33	R. Jornal do Comercio, Brazil	
15148	19.80	1	CE1515	Corp. Chilena Broadc., Chile	
15150	19.80	50/60/100		R. Roma, Italy	
	19.80	50		Khabarovsk, USSR	
	19.80	100		Minsk, USSR	
	19.80	7.5	YDC	Djakarta, Indonesia	
	19.80	1/10/50		R. Kuwait, Kuwait	
	19.80	35/100		Okinawa (VOA), Ryukyu Isl.	
	19.80	50/500		Greenville, USA	
	19.80	40	OAX4T	R. Nacional, Peru	
15155	19.80	50		ELWA, Liberia	
	19.80	10/100	VUD	AIR Delhi, India	
	19.80	35/100		Poro (VOA), Philippines	
	19.80	50/500		Greenville, USA	
	19.80	25	ZYB9	R.Dif. de São Paulo, Brazil	
15160	19.79	100		Allouis, France	
	19.79	50/100		R. Nederland, Holland	
	19.79	15/100		R. Budapest, Hungary	
	19.79	100		Moscow, USSR	
	19.79	100	TAU	R. Ankara, Turkey	
15165	19.78	50	OZF7	R. Denmark, Denmark	
	19.78	10/100	VUD	AIR Delhi, India	
	19.78	7.5/50		Malolos (VOA), Philippines	
	19.78	50		Damascus, Syria	
	19.78	1	ZYN7	R.Cl. de Ceará, Brazil	
15170	19.78	10/100/250		R. Free Europe, Germany	
	19.78	10/100	LKV	R. Norway, Norway	
	19.78	50		Blagoveshensk, USSR	
	19.78	100		Amman, Jordan	
	19.78	50/260		TWR Bonaire, Neth. Antilles	
15175	19.77	10/120	LLM	R. Norway, Norway	
	19.77	50		Kaunas, USSR	
	19.77	20/200		R. Japan, Japan	
	19.77	7.5/50		Malolos (VOA), Philippines	
15180	19.76	75		BBC London, Gt. Britain	
	19.76	50/100		R. Nederland, Holland	
	19.76	50		Petropavlovsk, USSR	
	19.76	10/100	VUD	AIR Delhi, India	
	19.76	10/50/100		R. Australia, Australia	
	19.76	0.5	OBX4C	R. El Sol, Peru	
15185	19.76	100	OIX4	Pori, Finland	

kc	m	kW	Call	Stations & countries	Rem.
15185	19.76	10/100/250		R. Free Europe, Germany	
	19.76	50		Ashkabad, USSR	
	19.76	10/100	VUD	AIR Delhi, India	
	19.76	35/100		Poro (VOA), Philippines	
15190	19.75	100		Munich (VOA), Germany	
	19.75	50		BBC London, Gt. Britain	
	19.75	50		Ivano-Frankovsk, USSR	
	19.75	50		R. Brazzaville, Congo	
	19.75	100/250		Accra, Ghana	
	19.75	35/100		Tanger (VOA), Morocco	
	19.75	10/100	VUD	AIR Delhi, India	
	19.75	50		Damascus, Syria	
	19.75	50		R. Canada, Canada	
	19.75	5	PRK3	R. Inconfidencia, Brazil	
15195	19.74	10/100/250		R. Free Europe, Germany	
	19.74	100		Hörby, Sweden	
	19.74	20/200		R. Japan, Japan	
	19.74	20	TAQ	R. Ankara, Turkey	
15200	19.74	15/100		BBC London, Gt. Britain	
	19.74	50		Kalatch, USSR	
	19.74	5	XEVOZ	R.Dif. XEVOZ, México	
15205	19.73	100	DMQ15	Deutsche Welle, Germany	
	19.73	35		Colombo, Ceylon	
	19.73	50/500		Greenville, USA	
15210	19.72	15/100		BBC London, Gt. Britain	
	19.72	100		Moscow, USSR	
	19.72	50/100		Cairo, Un. Arab Rep.	
	19.72	10/100	VUD	AIR Delhi, India	
	19.72	35/100		Poro (VOA), Philippines	
	19.72	3	ZPA7	R. Guarani, Paraguay	
15215	19.71	10/100/250		R. Free Europe, Germany	
15220	19.71	50/100		R. Nederland, Holland	
	19.71	50		Riga, USSR	
	19.71	20		Paradys, So. Africa	
	19.71	10/50/100		R. Australia, Australia	
	19.71	260		TWR, Bonaire, Neth. Antill.	
15225	19.70	20/50		R. Liberty, Germany	
	19.70	100		Alger, Algeria	
	19.70	10/100	VUD	AIR Delhi, India	
	19.70	20/200		R. Japan, Japan	
	19.70	25	CXA64	La Voz de Melo, Uruguay	
15230	19.70	100		Praha, Czechoslovakia	
	19.70	50/75		BBC London, Gt. Britain	
	19.70	50		Voronej, USSR	
	19.70	10	VLH15	Melbourne, Australia	
	19.70	10/2	DZH9	Call of the Orient, Philipp.	
	19.70	50/500		Greenville, USA	
15235	19.69	15/100		BBC London, Gt. Britain	
	19.69	20/200		R. Japan, Japan	
	19.69	50/500		Greenville, USA	
15240	19.69	1/50		Vienna, Austria	
	19.69			R.Berlin Int, Germany (GDR)	
	19.69	100		Hörby, Sweden	
	19.69	50		Sverdlovsk, USSR	
	19.69	100		R. Belgrade, Yugoslavia	
	19.69	10/100	VUD	AIR Delhi, India	
	19.69	10/50/100		R. Australia, Australia	
	19.69	50		R. St. KGEI, USA	
15245	19.68	100		Allouis, France	
	19.68	15/100		BBC London, Gt. Britain	
	19.68	50/260		TWR Bonaire, Neth. Antilles	
	19.68	10	ZYE21	R. Marajoára, Brazil	
15250	19.67	120		Bucharest, Rumania	
	19.67	50		Irkutsk, USSR	
	19.67	35/100		Poro (VOA), Philippines	
	19.67	50/500		Greenville, USA	
15255	19.66	10/100/250		R. Free Europe, Germany	
	19.66			R.Berlin Int, Germany (GDR)	
	19.66	50/200		Dixon, USA	
15260	19.66	75/250		BBC London, Gt. Britain	
	19.66	50/100		Cairo, Un. Arab Rep.	
	19.66	1		Tokyo (FEN), Japan	
	19.66	7.5/100		BBC, Malaysia	
15265	19.66	10/100/250		R. Free Europe, Germany	
	19.66	100		Gorki, USSR	
	19.66	50/250		Monrovia (VOA), Liberia	
15270	19.65			R.Berlin Int, Germany (GDR)	
	19.65	50/250		Monrovia (VOA), Liberia	
	19.65	100		Tananarive, Malagasy Rep.	
	19.65	50/260		TWR Bonaire, Neth. Antilles	
	19.65	1	CXA18	S.O.D.R.E, Uruguay	
15275	19.64	100	DMQ15	Deutsche Welle, Germany	
	19.64	50		Omsk, USSR	
	19.64	50/200		Delano, USA	
15280	19.63	100	DMQ15	Deutsche Welle, Germany	
	19.63	15		Novosibirsk, USSR	
	19.63	3	BED36	Taipei (BCC), Taiwan	

kc	m	kW	Call	Stations & countries	Rem.
15280	19.63	7.5	ZL4	R. New Zealand, New Zeal.	
	19.63	50/500		Greenville, USA	
15285	19.63	100		Praha, Czechoslovakia	
	19.63	75/100		BBC London, Gt. Britain	
	19.63	100/250		Accra, Ghana	
	19.63	35		Colombo, Ceylon	
	19.63	20/200		R. Japan, Japan	
15290	19.62	35/100		Tanger (VOA), Morocco	
	19.62	50/100		Cairo, Un. Arab Rep.	
	19.62	10/100	VUD	AIR Delhi, India	
	19.62	50/200		Dixon, USA	
	19.62	50/80	WRUL	R. New York, USA	
	19.62	10	LRU	R. El Mundo, Argentina	
15295	19.62	10/100/250		R. Free Europe, Germany	
	19.62	100	DMQ15	Deutsche Welle, Germany	
	19.62	50		Voronej, USSR	
	19.62	35/100		Tanger (VOA), Morocco	
	19.62	5/100		R.Cl. de Mozambique, Moz.	
	19.62	10	PRL8	R. Nacional Rio, Brazil	
15300	19.61	50/75		BBC London, Gt. Britain	
	19.61	50		Tbilisi, USSR	
	19.61	2/10	DZH9	Call of the Orient, Philipp.	
	19.61	5	CE1530	R.Soc.Nac. de Agricult, Chile	
15305	19.60	100		Schwarzenburg, Switzerland	
	19.60	100		Kiev, USSR	
	19.60	50		Lvov, USSR	
15310	19.60	75		BBC London, Gt. Britain	
	19.60	50		Tula, USSR	
	19.60	50/100		Cairo, Un. Arab Rep.	
	19.60	10/100	VUD	AIR Delhi, India	
	19.60	20/200		R. Japan, Japan	
	19.60	75/100		BBC, Malaysia	
	19.60	50/80	WRUL	R. New York, USA	
15312	19.59	50		R. Sofia, Bulgaria	
15315	19.59	100		Hörby, Sweden	
	19.59	50		Moscow, USSR	
	19.59	50/250		Monrovia (VOA), Liberia	
	19.59	35/100		Tanger (VOA), Morocco	
15320	19.58	100		Kazan, USSR	
	19.58	120		Serpukhov, USSR	
	19.58	3	BED38	Chiayi (BCC), Taiwan	
	19.58	50		R. Canada, Canada	
15325	19.58	50		Leningrad, USSR	
	19.58	20/200		R. Japan, Japan	
	19.58	10/50		Karachi, Pakistan	
15330	19.57	100		Sverdlovsk, USSR	
	19.57	100		Colombo, Ceylon	
	19.57	10/50/100		R. Australia, Australia	
	19.57	50/500		Greenville, USA	
	19.57	110		Bound Brook, USA	
15335	19.56	20/100	ORU5/3	Wavre, Belgium	
	19.56	10	ZYU60	R. Soc. Farroupilha, Brazil	
15340	19.56	20/50		R. Liberty, Germany	
	19.56	50		Irkutsk, USSR	
	19.56	10/100		R. Habana, Cuba	
15345	19.55	7.5/5		Athens, Greece	
	19.55	50		Sebaa Aioun, Morocco	
	19.55	100		Amman, Jordan	
	19.55	35/100		Poro (VOA), Philippines	
	19.55	25	BED49	Taipei (BCC), Taiwan	
	19.55	100	LRA33	R. Nacional, Argentina	
15350	19.54	5		R. Luxembourg, Luxemb.	
	19.54	100		Vologda, USSR	
	19.54	7.5/100		BBC, Malaysia	
	19.54	50		Bound Brook, USA	
15355	19.53	10/100/250		R. Free Europe, Germany	
	19.53	110		Bethany, USA	
15360	19.53	100		BBC London, Gt. Britain	
	19.53	100		Moscow, USSR	
	19.53	50/250		Monrovia (VOA), Liberia	
	19.53	50/100		Cairo, Un. Arab Rep.	
	19.53	35/100		Poro (VOA), Philippines	
15365	19.52	10/100/250		R. Free Europe, Germany	
	19.52	50/200		Delano, USA	
15370	19.52	20/50		R. Liberty, Germany	
	19.52	10	ZYC9	R. Tupi, Brazil	
15375	19.51	50/75		BBC London, Gt. Britain	
	19.51	50		Ashkhabad, USSR	
	19.51	100		Leningrad, USSR	
15380	19.50	20/50		R. Liberty, Germany	
	19.50	50/100	CSA42	R. Nacional, Portugal	
	19.50	120		Bucharest, Rumania	
	19.50	50		Alger, Algeria	
	19.50	250		Kigali (DW), Rwanda	
15385	19.50	100		Gorki, USSR	
	19.50	3/50	DZF3	Call of the Orient, Philipp.	
	19.50	50	HSK9	R. Thailand, Thailand	

kc	m	kW	Call	Stations & countries	Rem.
15385	19.50	50/80	WRUL	R. New York, USA	
	19.50	10	CXA60	R. Sarandi, Uruguay	
15390	19.49	75		BBC London, Gt. Britain	
	19.49	20/200		R. Japan, Japan	
15395	19.49	35/100		Poro (VOA), Philippines	
	19.49	50/200		Dixon, USA	
	19.49	50/500		Greenville, USA	
15400	19.48	50/60/100		R. Roma, Italy	
	19.48	100		Kiev, USSR	
	19.48	50/500		Greenville, USA	
15405	19.47	10/100/250		R. Free Europe, Germany	
	19.47	100	DMQ15	Deutsche Welle, Germany	
	19.47	100		Jamburg, USSR	
	19.47	30	HCJB	La Voz de los Andes, Ecuad.	
15406	19.47	0.35	PZC	R. Suriname, Surinam	
15410	19.47	1/50	OEI66	Vienna, Austria	
	19.47	15/100		BBC London, Gt. Britain	
	19.47	100	ETLF	Addis Ababa, Ethiopia	
	19.47	10		Tanger, Morocco	
	19.47	7.5/50		Malolos (VOA), Philippines	
	19.47	35/100		Poro (VOA), Philippines	
	19.47	50/200		Delano, USA	
	19.47	50/500		Greenville, USA	
15415	19.46	100		Kiev, USSR	
	19.46	50/500		Greenville, USA	
	19.46	1	ZYR206	R.Cl. Ribeirão Preto, Brazil	
15420	19.46	10/100/250		R. Free Europe, Germany	
	19.46	75		BBC London, Gt. Britain	
	19.46	100		R. Nacional, Spain	
	19.46	100		Hörby, Sweden	
	19.46	50	DYH7	Dumaguete City, Philippines	
15425	19.45	7.5/5		Athens, Greece	
	19.45	50/100		R. Nederland, Holland	
	19.45	120		Moscow, USSR	
	19.45	50		Omsk, USSR	
	19.45	20/200		R. Japan, Japan	
	19.45	50	VLX15	Perth, Australia	
				15427–17700 kc	
15430	19.44	20		Novosibirsk, USSR	
	19.44	50/500		Greenville, USA	
15435	19.44	75		BBC London, Gt. Britain	
	19.44	50/100		Cairo, Un. Arab Rep.	
	19.44	7.5/100		BBC, Malaysia	
15440	19.43	50		Chita, USSR	
	19.43	120		Riazan, USSR	
	19.43	100		Tashkent, USSR	
	19.43	10/3		Call of the Orient, Philipp.	
	19.43	50/80	WRUL	R. New York, USA	
15445	19.43	15/100		BBC London, Gt. Britain	
	19.43	20/50		R. Liberty, Germany	
	19.43	50/100		R. Nederland, Holland	
	19.43	50		R. Brazzaville, Congo	
	19.43	50/250		Monrovia (VOA), Liberia	
	19.43	10		R. Nac. Brasilia, Brazil	
15448	19.42	100		Praha, Czechoslovakia	
15450	19.42	100		Serpukhov, USSR	
15460	19.40	50		Krasnoyarsk, USSR	
	19.40	100		Moscow, USSR	
15465	19.40	0.35	PZC	R. Suriname, Surinam	
15470	19.39	50		Kalinin, USSR	
15475	19.38	50/100		Cairo, Un. Arab Rep.	
15480	19.38	50		Irkutsk, USSR	
15490	19.36	50		Orenburg, USSR	
15505	19.35	50		Sverdlovsk, USSR	
15520	19.33	5/50		Pyongyang, Korea (Dem. R.)	
16250	18.46			Moscow, USSR	
**16980	17.67		DAM	Elmshorn, Germany	
**17194	17.45		PPR	Rio de Janeiro, Bracil	
17630	17.02	7.5/10		Dacca, Pakistan	
**17685	16.96		GIC37	Hailsham, Gt. Britain	
17690	16.96	50/100		Cairo, Un. Arab Rep.	
17695	16.95	15/100		BBC London, Gt. Britain	
				17700–17900 kc (16 m.b.)	
17700	16.95	50		Tallinn, USSR	
17705	16.94	75/100		BBC London, Gt. Britain	
	16.94	10/100	VUD	AIR Delhi, India	
	16.94	35/100		Poro (VOA), Philippines	
	16.94	100		Honolulu (VOA), Hawaii	
17710	16.94	100		Moscow, USSR	
	16.94	50/100		Cairo, Un. Arab Rep.	
	16.94	50/500		Greenville, USA	
	16.94	50/80	WRUL	R. New York, USA	
17715	16.93	75/100		BBC London, Gt. Britain	
	16.93	10/100	VUD	AIR Delhi, India	
	16.93	10/50/100		R. Australia, Australia	
	16.93	50	DYH8	Dumaguete City, Philippines	
17720	16.93	20/50		R. Liberty, Germany	

kc	m	kW	Call	Stations & countries	Rem.
17720	16.93	50		R. Brazzaville, Congo	
	16.93	35/100		Tanger (VOA), Morocco	
	16.93	50/100		Cairo, Un. Arab Rep.	
	16.93	35/100		Poro (VOA), Philippines	
	16.93	50	WINB	Red Lion, USA	
17725	16.93	10/100/250		R. Free Europe, Germany	
	16.93	20/200		R. Japan, Japan	
	16.93	1	ZYR232	R. Universitaria, Brazil	
17730	16.92	250		BBC London, Gt. Britain	
	16.92	50		Serpukhov, USSR	
	16.92	50/80	WRUL	R. New York, USA	
17735	16.92	10/100/250		R. Free Europe, Germany	
	16.92	100		Munich (VOA), Germany	
	16.92	10/100	VUD	AIR Delhi, India	
	16.92	35/100		Poro (VOA), Philippines	
	16.92	50/200		Dixon, USA	
17740	16.91	100		Allouis, France	
	16.91			R. Berlin Int, Germ. (GDR)	
	16.91	50/75		BBC London, Gt. Britain	
	16.91	50/100	CSA43	R. Nacional, Portugal	
	16.91	100		Moscow, USSR	
	16.91	50/500		Greenville, USA	
17745	16.91	15/100		BBC London, Gt. Britain	
	16.91	7.5/5		Athens, Greece	
	16.91	50		Kursk, USSR	
	16.91	50/500		Greenville, USA	
17750	16.90	1/50		Vienna, Austraia	
	16.90	100	ORU4	Wavre, Belgium	
	16.90	1/50/100		R. Kuwait, Kuwait	
17755	16.90			R. Berlin Int, Germ. GDR)	
	16.90	20/50		R. Liberty, Germany	
	16.90	50/75		BBC London, Gt. Britain	
	16.90	10/100	LKW	R. Norway, Norway	
	16.90	100		Gorki, USSR	
	16.90	50		Tashkent, USSR	
	16.90	20/200		R. Japan, Japan	
	16.90	7.5/100		BBC, Malaysia	
17760	16.89	50/100		Cairo, Un. Arab Rep.	
	16.89	10/50		Karachi, Pakistan	
17765	16.89	100		Allouis, France	
	16.89	15		Tula, USSR	
	16.89	250		Kigali (DW), Rwanda	
	16.89	7.5/50		Malolos (VOA), Philippines	
	16.89	110		Bethany, USA	
	16.89	50/200		Delano, USA	
17770	16.88	10/100/250		R. Free Europe, Germany	
	16.88	50/60/100		R. Roma, Italy	
	16.88	10/50		Karachi, Pakistan	
17775	16.88	50/100		R. Nederland, Holland	
	16.88	50		Riazan, USSR	
17780	16.87	20/50		R. Liberty, Germany	
	16.87	7.5/5		Athens, Greece	
	16.87	50/500		Greenville, USA	
17785	16.87	50		Frunze, USSR	
	16.87	50		Volgograd, USSR	
	16.87	50/100		Cairo, Un. Arab Rep.	
	16.87	20/200		R. Japan, Japan	
17790	16.86	75/100		BBC London, Gt. Britain	
	16.86	35/100		Tanger (VOA), Morocco	
17795	16.86	15/100		R. Budapest, Hungary	
	16.86	100		Armavir, USSR	
	16.86	20/200		R. Japan, Japan	
	16.86	5		Manaus, Brazil	
17800	16.85	50/100		R. Nederland, Holland	
	16.85	50/60/100		R. Roma, Italy	
	16.85	100		Honolulu (VOA), Hawaii	
	16.85	50/500		Greenville, USA	
17805	16.85	1/50		Vienna, Austria	
	16.85	10/100/250		R. Free Europe, Germany	
	16.85	50		Tallinn, USSR	
	16.85	50/100		Cairo, Un. Arab Rep.	
	16.85	250		Kigali (DW), Rwanda	
	16.85	20		Paradys, So. Africa	
17810	16.84	1/50		Vienna, Austria	
	16.84	75		BBC London, Gt. Britain	
	16.84	50/100		R. Nederland, Holland	
	16.84	2	DZI6	Call of the Orient, Philipp.	
17815	16.84	50		Frunze, USSR	
	16.84	100		Simferopol, USSR	
	16.84	35/100		Tanger (VOA), Morocco	
	16.84	10		R. Dif. de São Paulo, Brazil	
17820	16.84	100		Schwarzenburg, Switzerland	
	16.84	10/100	VUD	AIR Delhi, India	
	16.84	100	TAV	R. Ankara, Turkey	
	16.84	10/50/100		R. Australia, Australia	
	16.84	50		R. Canada, Canada	
	16.84	50/200		Delano, USA	

kc	m	kW	Call	Stations & countries	Rem.
17825	16.83	100		Praha, Czechoslovakia	
	16.83			R. Berlin Int, Germ. (GDR)	
	16.83	10/120	LLN	R. Norway, Norway	
	16.83	100		Kursk, USSR	
	16.83	20/200		R. Japan, Japan	
17830	16.83	100	DMQ17	Deutsche Welle, Germany	
	16.83	50/100		R. Nederland, Holland	
	16.83	35		Colombo, Ceylon	
	16.83	10/100	VUD	AIR Delhi, India	
	16.83	35/100		Poro (VOA), Philippines	
	16.83	50/500		Greenville, USA	
17835	16.82	10/100/250		R. Free Europe, Germany	
17840	16.82	10/100/250		R. Free Europe, Germany	
	16.82	50/100		R. Nederland, Holland	
	16.82	100		Moscow, USSR	
	16.82	25/100		Vatican Radio	
	16.82	50		Jeddah, Saudi Arabia	
	16.82	10/50/100		R. Australia, Australia	
17845	16.81	100	DMQ17	Deutsche Welle, Germany	
	16.81	100		Hörby, Sweden	
	16.81	100		Schwarzenburg, Switzerland	
	16.81	50/80	WRUL	R. New York, USA	
17850	16.81	100		Allouis, France	
	16.81	100		Moscow, USSR	
	16.81	50/200		Dixon, USA	
17855	16.80	1/50		Vienna, Austria	
	16.80	10/100/250		R. Free Europe, Germany	
	16.80	35/100		Tanger (VOA), Morocco	
	16.80	10/100	VUD	AIR Delhi, India	
	16.80	20/200		R. Japan, Japan	
	16.80	10/100		R. Habana, Cuba	
17860	16.80	20/100	ORU3/5	Wavre, Belgium	
	16.80	15/100		BBC London, Gt. Britain	
	16.80	120		Tashkent, USSR	
17865	16.80	10/100/250		R. Free Europe, Germany	
	16.80	50/100		Cairo, Un. Arab Rep.	
	16.80	20		Damascus, Syria	
17870	16.79	100	DMQ17	Deutsche Welle, Germany	
	16.79	75/100		BBC London, Gt. Britain	
	16.79	50		Riazan, USSR	
	16.79	20/200		R. Japan, Japan	
	16.79	7.5/100		BBC, Malaysia	
	16.79	10/50/100		R. Australia, Australia	
17875	16.79	100	DMQ17	Deutsche Welle, Germany	
	16.79	10/100/250		R. Free Europe, Germany	
	16.79	20/50		R. Liberty, Germany	
	16.79	50/100		Cairo, Un. Arab Rep.	
	16.79	20/200		R. Japan, Japan	
	16.79	50/500		Greenville, USA	
	16.79	7.5	PRL2	R. Dif. Educação, Brazil	
17880	16.78	15/100		BBC London, Gt. Britain	
	16.78	50/100	CSA45	R. Nacional, Portugal	
	16.78	50		Erevan, USSR	
	16.78	50		Petropavlovsk, USSR	
	16.78	7.5/100		BBC, Malaysia	
17885	16.78	10/100/250		R. Free Europe, Germany	
	16.78	75		BBC London, Gt. Britain	
17890	16.77	1/50		Vienna, Austria	
	16.77	15/100		R. Budapest, Hungary	
	16.77	50/100	CSA46	R. Nacional, Portugal	
	16.77	10/100	VUD	AIR Delhi, India	
	16.77	50	BED40	Taipei (BCC), Taiwan	
	16.77	30	HCJB	La Voz de los Andes, Ecuad.	
17895	16.76	20/50		R. Liberty, Germany	
	16.76	50/100	CSA66	R. Nacional, Portugal	
	16.76	50		Kaunas, USSR	
	16.76	20/200		R. Japan, Japan	
17905	16.75	50/100		Cairo, Un. Arab Rep.	
				17910–21450 kc	
17910	16.75	100/250		Accra, Ghana	
17920	16.74	50/100		Cairo, Un. Arab Rep.	
18080	16.59	15/100		BBC London, Gt. Britain	
18150	16.53	15/100		BBC London, Gt. Britain	
*18895	15.94	8	OLD2	Praha, Czechoslovakia	
**19640	15.20		GIA39	Hailsham, Gt. Britain	
*20000	15.00	20	RWM	Moscow, USSR	
*	15.00	1	WWV	Lanham, USA	
				21450–21750 kc (13 m. b.)	
21450	13.99	100		Praha, Czechoslovakia	
21455	13.98	75		BBC London, Gt. Britain	
	13.98	35/100		Tanger (VOA), Morocco	
21460	13.98	50/200		Delano, USA	
21470	13.97	75/100		BBC London, Gt. Britain	
	13.97	50	DYH9	Dumaguete City, Philipp.	
21475	13.97	50		Simferopol, USSR	
21480	13.97	50/100		R. Nederland, Holland	
21485	13.96	10/100/250		R. Free Europe, Germany	

kc	m	kW	Call	Stations & countries	Rem.
21485	13.96	7.5/5		Athens, Greece	
	13.96	25/100		Vatican Radio	
	13.96	7.5/100		BBC, Malaysia	
	13.96	110		Bethany, USA	
21490	13.96	15/100		BBC London, Gt. Britain	
21495	13.96	50/100	CSA67	R. Nacional, Portugal	
21500	13.95	2/50		R. Brazzaville, Congo	
21505	13.94	50		Erevan, USSR	
21510	13.94	100	ORU4	Wavre, Belgium	
21520	13.94	100		Schwarzenburg, Switzerland	
21525	13.94	20		Paradys, So. Africa	
	13.94	1/10/50		R. Kuwait, Kuwait	
21530	13.93	75		BBC London, Gt. Britain	
	13.93	50		Frunze, USSR	
21535	13.93	1		ELWA, Liberia	
21540	13.93	10/50/100		R. Australia, Australia	
21545	13.92	100/250		Accra, Ghana	
21550	13.92	75/100		BBC London, Gt. Britain	
21560	13.91	50		Ashkhabad, USSR	
21565	13.91	50/100		R. Nederland, Holland	
21570	13.91	50/100		R. Nederland, Holland	
	13.91	35/100		Poro (VOA), Philippines	
21580	13.90	100		Allouis, France	
	13.90	10/100	VUD	AIR Delhi, India	
21585	13.90	120		Minsk, USSR	
21590	13.90	10/50		Karachi, Pakistan	
21595	13.89	15/100		BBC London, Gt. Britain	
21600	13.89	10/100/250		R. Free Europe, Germany	
	13.89	15/100		BBC London, Gt. Britain	
	13.89	100		Leningrad, USSR	
21610	13.88	15/100		BBC London, Gt. Britain	
	13.88	7.5/100		BBC, Malaysia	
	13.88	110		Bethany, USA	
21615	13.88	75		BBC London, Gt. Britain	
21620	13.87	100		Allouis, France	
	13.87	10/100/250		R. Free Europe, Germany	
21625	13.87	50/100		R. Nederland, Holland	
	13.87	100		Kursk, USSR	
21630	13.87	75/100		BBC London, Gt. Britain	
21640	13.86	15/100		BBC London, Gt. Britain	
	13.86	50		Baku, USSR	
21650	13.86	100	DMQ21	Deutsche Welle, Germany	
	13.86	7.5/100		BBC, Malaysia	
	13.86	50/200		Dixon, USA	
	13.86	50/500		Greenville, USA	
21655	13.86	50		Kalatch, USSR	
	13.86	7.5/100		BBC, Malaysia	
21660	13.85	75		BBC London, Gt. Britain	
21665	13.85	10/100/250		R. Free Europe, Germany	
	13.85	50/100		R. Nederland, Holland	
	13.85	15/100		R. Budapest, Hungary	
21670	13.84	5	LLP	R. Norway, Norway	
	13.84	50/250		Monrovia (VOA), Liberia	
21675	13.84	75/100		BBC London, Gt. Britain	
21680	13.84	10/100/250		R. Free Europe, Germany	
	13.84	75/100		BBC London, Gt. Britain	
21685	13.83	15/100		R. Budapest, Hungary	
	13.83	7.5/10		Dacca, Pakistan	
21690	13.83	50		Tashkent, USSR	
	13.83	35/100		Tanger (VOA), Morocco	
21700	13.83	50/100	CSA46	R. Nacional, Portugal	
21710	13.83	75/100		BBC London, Gt. Britain	
21715	13.82	50/100		R. Nederland, Holland	
21720	13.81	10/100/250		R. Free Europe, Germnay	
	13.81	100/250		Accra, Ghana	
	13.81	7.5/100		BBC, Malaysia	
21730	13.81	5/10	LLQ	R. Norway, Norway	
21735	13.81	50		Tashkent, USSR	
21740	13.80	15/100		BBC London, Gt. Britain	
	13.80	7.5/100		BBC, Malaysia	
21745	13.80	10/100/250		R. Free Europe, Germany	
*25000	12.00	0.1	WWV	Lanham, USA	
				25600–26100 kc (11 m. b.)	
25610	11.71	50/100		R. Nederland, Holland	
25650	11.70	100		BBC London, Gt. Britain	
	11.70	7.5/100		BBC, Malaysia	
25670	11.69	100		BBC London, Gt. Britain	
25720	11.66	100		BBC London, Gt. Britain	
25840	11.61	100		BBC London, Gt. Britain	
25850	11.60	15/100		BBC London, Gt. Britain	
	11.60	7.5/100		BBC, Malaysia	
25900	11.58	2/10	LLA	R. Norway, Norway	
25920	11.57	15/100		BBC London, Gt. Britain	
26040	11.52	15/100		BBC London, Gt. Britain	
	11.52	50/100		R. Nederland, Holland	
26080	11.50	15/100		BBC London, Gt. Britain	

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INTERNATIONAL WATERS

RADIO CAROLINE (Comm.)
ADDR: P.O. Box 3, Ramsey, Isle of Man, or Caroline House, 6 Chesterfield Gardens, London W.1, England. **Te:** Hyde Park 9721 – **L.P:** Man. Dirs: R. O'Rahilly, A. Crawford.
STATIONS: M/V "Caroline" (R. Caroline North) anchored 4 miles off Ramsey Bay, Isle of Man – 1520kc 10kW.
M/V "Mi Amigo" (R. Caroline South) anchored 4 miles off Harwich – 1493kc 10kW – **D.PRGR. in English:** 06.00–20.00 (Fri & Sat also 21.00–24.00) – **ANN:** "This is R. Caroline, your all-day music station" followed by two strokes on ship's bell – **V.** by letter & QSL-card.

RADIO CITY (Comm.)
ADDR: 7 Denmark St, London W.C.2, England. **Te:** TEMple Bar 6303 – **L.P:** Dir. Gen: Reg. Calvert.
STATION: Located on "A.A. Guntowers" at Shivering Sands in the Thames Estuary: 1034kc 60kW – **D.PRGR. in English:** W 06.00–19.00. Sun 06.00–19.30.
Wrp: On the h – **ANN:** "Broadc. on 299m in the medium waveband, this is R. City" – **V.** by letter. Re. to Radio City 7 Denmark Street, London W.C.2.

RADIO LONDON (Comm.)
ADDR: Marine Investment Co. Inc, P.O. Box 456, Freeport, Grand Bahama Island, Bahamas – **L.P:** Man. Dir: Ph. T. Birch. Dir. Prgr: Ben Toney.
STATION: Located on the former U.S. minesweeper "Galaxy" anchored 4 miles off Frinton-on-Sea: 1133kc 50kW – **D.PRGR:** 06.00–21.00 – **N:** Every h on the half h. **Wrp:** Every half h on the h and half h **ANN:** "Wonderful R. London" – **V.** by letter, Rp.

KING RADIO (Comm.)
ADDR: Oxford House, Folkstone, Kent, England.
STATION: Located on "A.A. Guntower" at Red Sands in the Thames Estuary: 1268kc 1kW – **D.PRGR. in English:** 07.00–19.00.

RADIO SYD (Comm.)
ADDR: Box, Malmö 4, Sweden – **L.P:** Dir. Gen: Mrs. Britt Wadner.
STATION: M/V "Cheeta" anchored in the Sund off Malmö: FM 91.5Mc 7kW – **D.PRGR. in Swedish:** 05.00–02.00 – **V.** by QSL-card.

RADIO VERONICA (Comm.)
ADDR: P.O. Box 218, Hilversum, Holland. Studio: Zeedijk 27A, Hilversum – **STATION:** M/V "Veronica" anchored 6 miles west of "S Gravenhage" (The Hague): 1562kc 5kW.
D.PRGR: 06.00–24.00 – **Indonesian** (Thurs) 19.00–20.00, **Spanish** (Fri) 21.00–21.30, **Italian** (Sat) 21.00–21.30; Other times in Dutch – **ANN:** "Hier R. Veronica op 192m" or "Hier R. Veronica waar muziek in Zit" – **V.** by letter.

OTHER STATIONS REPORTED:
R. Atlanta: Dublin Bay (1558kc) – **R. Ceasar:** 1530kc 0.5kW – **R. Lambey:** Dublin Bay (600kc) – **R. Shannon:** Coaster "Viking" off the mouth of River Shannon (1493kc) – **R. 390: Addr:** BCM 390, London W.C.2 – **Station:** 773kc.

Sveriges DX-Förbund (the DX-Union of Sweden) är en sammanslutning av flertalet svenska DX-klubbar. Varje månad utges "DX-Aktuellt", tryckt i offset och med ett stort antal specialsidor. Du finner bl.a. nybörjarsidor, Special-DX-sidor med nytt från Latin-Amerika, Asien, Afrika och Europa, tekniksidor, tipssidor av högsta kvalitet, QSL-nytt, stationspresentationer och – framförallt – aktuella nyheter på DX-området. Tidningens redaktörer är Sveriges absoluta toppkrafter och specialister på resp. områden. Medlemsservicen med rapportformulär i olika utföranden, tonband, hörlurar, handböcker, m.m. har billiga priser och snabb leverans. Prenumerationsavgift på "DX-Aktuellt": 15:–. Rekvirera gratis provex. och ytterligare upplysningar.
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BOLIVIA: Unlicensed stations in operation: 5360kc R. Alihuata, Sta. Cruz; 5656kc Voz de Minero, Siglo XII; 5785kc R. Colquiri, Colquiri; 5790kc R. Mendez, Huanuni; 5820kc R. Tupac Catari, Oruro; 5840kc R. Sumaj Orko, Potosi; 5860kc R. Nacional, Huanuni; 5860kc R. San José, Oruro; 5970kc R. 9 de Abril, Pulacayo; 5995kc R. Corocoro, Corocoro; 6050kc R. Villazon, Villazon; 6140kc R. Chorolque, Tupiza; 6200kc R. Libertad, Sta. Cruz; 6210kc R. Chichas, Siete Suyos; 6350kc R. Union, Oruro; 6500kc R. Busch, Uyuni; 6600kc R. Libertad, Sucre; 6600kc R. Copacabana, Sucre; 6668kc R. Santa Barbara, Quechlisla; 7005kc R. Monteagudo, Colquiri; 7850kc Voz Sindicalista, Oruro; 9400kc R. Camiri, Camiri; 9400kc R. Sucre, Sucre.

FRANCE: High-powered relay st's to be erected in French Somaliland (for Africa & So. Ea. Asia), New Caledonia (for the Pacific) & in French Guiana (for Latin America).

GERMAN FEDERAL REP: "Deutschlandfunk": On 1538kc: Danish 22.30–22.40, Norwegian 22.40–22.50, Swedish 22.50–23.00 – **F. PL:** WDR: 800kW on 971 kc, NDR: 300kW on 971kc.

GERMAN DEMOCRATIC REP: "Deutscher Soldatensender": 935kc. Reports to Mr. W. Schütz, P.O. Box 116, Berlin W8, GDR.

INDIA: 1000kW tr's are being installed at Calcutta & Bombay.

ISRAEL: Foreign Sce: Russian 15.30–16.00, 17.00–17.35, 19.30–20.00.

LUXEMBOURG: Add: German 05.15–06.30 on 1439/6090kc. N: 06.15 – V. by QSL-card or letter.

MALDIVE ISLANDS: 01.30–04.00 on 7150kc (15kW), 07.00–09.30 on 9552kc (15kW), 12.30–17.30 on 3222kc (15kW).

THAILAND: A 400kW VOA-relay station planned to operate from Northern Thailand towards the end of 1966.

DX-PROGRAMMES: "R. Portugal DX-Club" In French: Every 2nd & 4th Tues 17.45, 19.45, 22.15. In German: Every 1st & 4th Fri 22.00, 23.45 – **R. Bucharest:** In German Fri 21.00 – **R. New York Worldwide:** Sat 13.30, 21.30 – **R. Moscow: "DX-Club":** Sat 05.15, 23.15 (to No. America).

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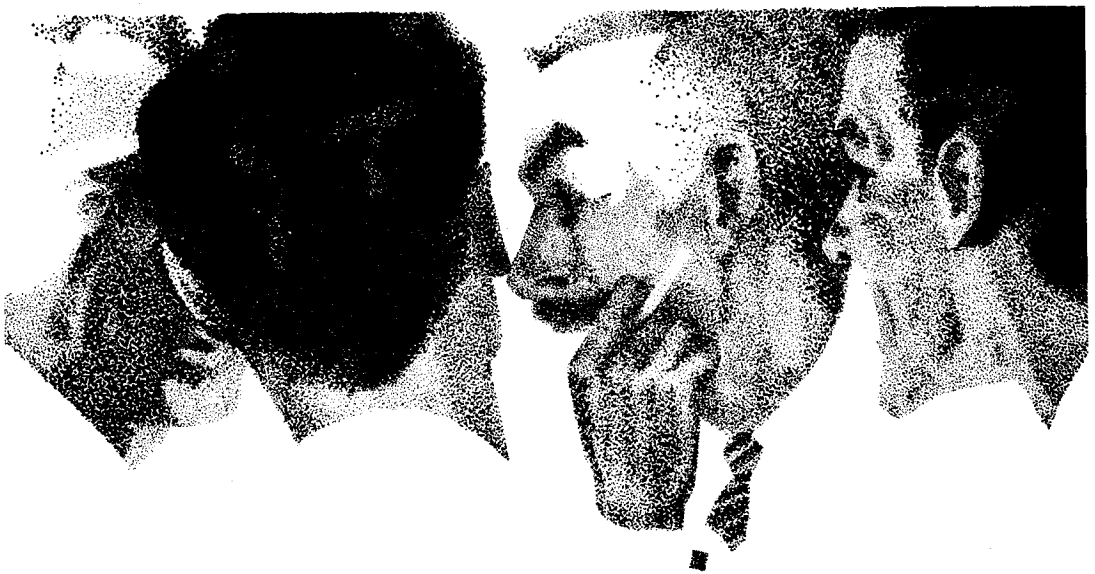

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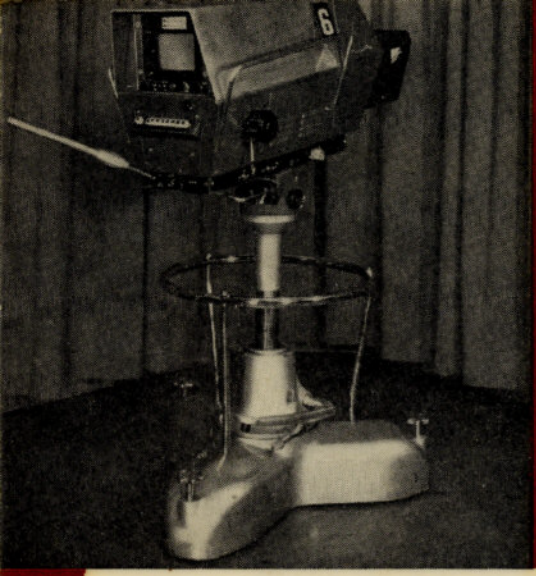

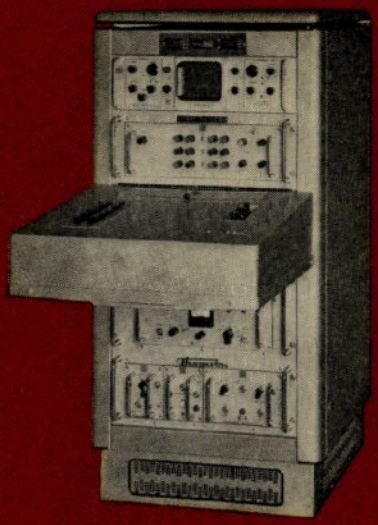

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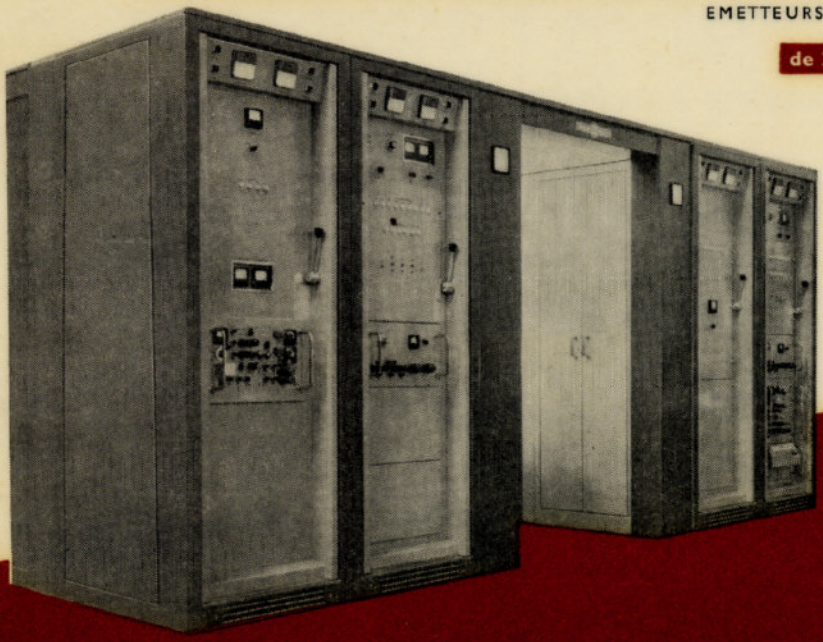

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